



Changing Entertainment. Again.

HDTV/DVD Player User's Guide

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Important Information

WARNING

To reduce the risk of fire or electric shock, do not expose this product to rain or moisture. The apparatus shall not be exposed to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.

CAUTION

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

Note:

This device is protected by U.S. patent numbers 4,631,603 and 4,577,216 and 4,819,098 and other intellectual property rights. The use of Macrovision's copy protection technology in the device must be authorized by Macrovision and is intended for home and other limited pay-per-view uses only, unless otherwise authorized in writing by Macrovision. Reverse engineering or disassembly is prohibited.

Note:

This DVD player is designed and manufactured to respond to the Region Management Information. If the Region number of a DVD disc does not correspond to the Region number of this DVD player, this DVD player cannot play the disc. The Region number for this DVD player is Region No 1.

**CLASS 1
LASER
PRODUCT**

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



This symbol indicates that this product incorporates double insulation between hazardous mains voltage and user accessible parts. When servicing use only identical replacement parts.

Caution: To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.



This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

Caution: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

Refer to the identification/rating label located on the back panel of your product for its proper operating voltage.

FCC Regulations state that unauthorized changes or modifications to this equipment may void the user's authority to operate it.

Caution: Using video games or any external accessory with fixed images for extended periods of time can cause them to be permanently imprinted on the picture tube (or projection TV picture tubes). ALSO, some network/program logos, phone numbers, black borders (sides, top and bottom), etc. may cause similar damage. This damage is not covered by your warranty.

Cable TV Installer: This reminder is provided to call your attention to Article 820-40 of the National Electrical Code (Section 54 of the Canadian Electrical Code, Part 1) which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Warning: Do not use the Freeze feature for an extended period of time. This can cause the image to be permanently imprinted on the picture tube. Such damage is not covered by your warranty. Press any button to unfreeze the picture at any time.

IMPORTANT: Choose the location for your HDTV/DVD carefully. Place the HDTV/DVD on a stand or base that is of adequate size and strength to prevent the HDTV/DVD from being accidentally tipped over, pushed off, or pulled off. This could cause personal injury and/or damage the HDTV/DVD. Refer to the Important Safety Instructions on page 1.

Product Registration

Please fill out the product registration card (packed separately) and return it immediately. For US customers: Your RCA Consumer Electronics product may also be registered at www.rca.com/productregistration. Registering this product allows us to contact you if needed.

Product Information

Keep your sales receipt to obtain warranty parts and service and for proof of purchase. Attach it here and record the serial and model numbers in case you need them. These numbers are located on the product.

Model No. _____

Serial No. _____

Purchase Date: _____

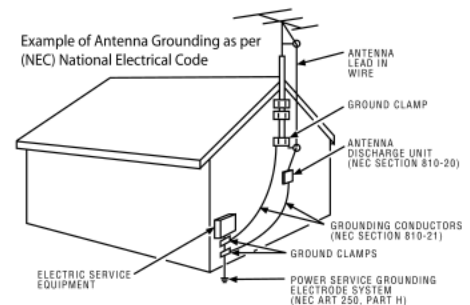
Dealer/Address/Phone: _____

IMPORTANT SAFETY INSTRUCTIONS

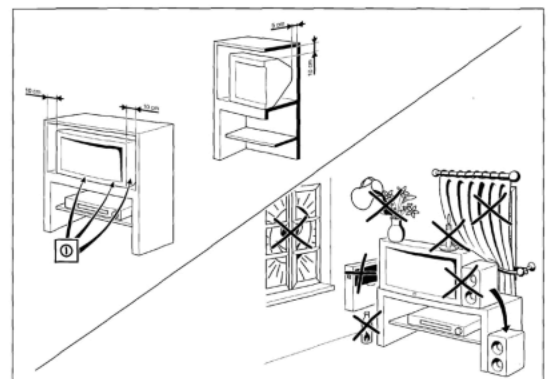
1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time. Even if the power indicator is off, the apparatus is still not fully disconnected from the power source. To disconnect the apparatus completely from the power source, take its power plug out of the wall outlet or power strip. The power plug must be easily accessible.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



If an outside antenna is connected to the TV receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. In the U.S. Section 810-21 of the National Electrical Code and in Canada, Part 1 of the Canadian Electrical Code provides information with respect to proper grounding of the antenna system. See the figure on the right for details.



To assure adequate ventilation for this product, maintain a spacing of 4 inches from the top and sides of the TV receiver and 2 inches from the rear of the TV receiver and other surfaces.



Introduction

Thank you for choosing RCA

Congratulations on purchasing this RCA High Definition Television (HDTV). Your purchase decision represents an investment in a new generation of technology—HDTV. Even though this is a technologically advanced HDTV, it is the most user-friendly of its kind—with on-screen instructions that guide you through all of the HDTV/DVD's features.



Connect the off-air antenna for digital television to this input jack.



Connect cable TV or your off-air antenna for regular, analog TV to this input jack.

The best of both worlds

Your HDTV/DVD has two tuners: one for regular, analog television and one for off-air digital television (ATSC). On your HDTV's back panel you'll see two inputs—one for cable TV or regular, off-air programming and one for off-air digital television.

While you're watching TV, you can switch from one tuner to the other with the ANTENNA button on your remote.

There are many off-air antennas you can use to receive off-air digital television. Find out which antenna will work best in your environment and where you should put your antenna for the best reception. For more information on antenna reception in different parts of the U.S., go to www.antennaweb.org.

What makes HDTV better

With your new High-Definition Television, you can embark on the next generation of TV viewing—HDTV. There are many technological advancements that make HDTV better than analog TV, but there are basically three things about HDTV that bring you a superior viewing experience: (1) resolution, (2) aspect ratio, and (3) digital signal and sound.

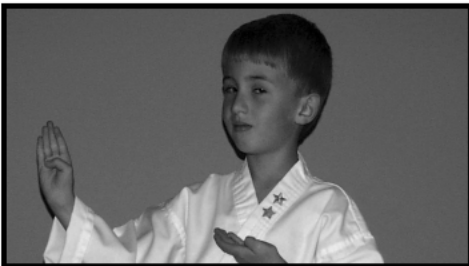
Resolution (it's math...that works for you)

The crisp, lifelike picture that people rave about when experiencing true HDTV is due to the resolution this technology provides. The resolution is measured by calculating the number of active lines of pixels. A pixel (which stands for picture element) is a small dot. The picture you see on your HDTV/DVD is composed of these dots.

A regular, analog television only has a resolution of about 200,000 pixels (480 vertical pixels x 440 horizontal pixels = 211,200 pixels). The HDTV format is capable of more than 2 million pixels (1,920 x 1,080 = 2,073,600).

More pixels equal more detail. In summary, HDTV is capable of resolution that is up to 10 times the resolution of the picture on a regular, analog TV!

Feature	Analog (NTSC)	HD Digital (ATSC)
Total Scan Lines	525	1125
Effective Scan Lines	480	1080
Aspect Ratio	4:3	16:9 (Widescreen)
Max Resolution	720 x 480	1920 x 1080
Sound	2-ch Stereo	5.1 ch Surround



16:9 Aspect Ratio



Aspect Ratio

Aspect ratio is simply the width and height of the picture. Regular TVs use a 4:3 aspect ratio, which means the picture is a little wider than it is tall (a screen that is 20 inches wide is about 15 inches tall).

When the standards were being developed for television broadcasting in 1941 by the NTSC (the National Television Standards Committee), it made sense to adopt the 4:3 aspect ratio the film industry was using at that time.

As TVs dropped in price and people prospered in the 1950s, the movie industry had to find a way to get people out of their living rooms and back to the movie theatres. That's when they created the 16:9 aspect ratio (also called widescreen format). When the standards for HDTV were being developed by the ATSC (Advanced Television Standards Committee), the 16:9 aspect ratio was chosen as the format for HDTV.

This widescreen format makes sense because it's much closer to the way we see. Our field of vision is actually much wider than tall because of our peripheral vision. Not only is it closer to the way we see, but the pictures are crisper and cleaner with more detail in the close-up and panoramic views.

Introduction

Digital Signal and Sound

The analog television broadcast system that has been used in the United States for the past 50 years transmits signals as electronic waves. These waves can suffer degradation as the signal travels to your home. Additionally, the analog waves are susceptible to interference from planes passing overhead, weather, and household appliances.

Digital signals, in contrast to analog signals, can be reproduced precisely because the images are transmitted and received using the computer language of 1s and 0s. Such precision yields a signal that is capable of displaying studio-quality picture and Dolby Digital 5.1 channel sound.

Other Key Features of owning an RCA HDTV/DVD

There are other HDTVs on the market. But your RCA HDTV/DVD has been designed with features that will enhance your TV viewing experience, and features that provide flexibility to build on the digital revolution that is taking place. A summary of your HDTV/DVD's most unique features follows. Go to Chapter 4 for more details on these and additional features.

TruScan Digital Reality™ Feature

With the *Film Mode* option turned on, the intelligent signal processing of the TruScan Digital Reality feature recognizes incoming video signals and progressively converts them to achieve optimum digital picture performance. It also recognizes when original film sources have been modified and can automatically convert the analog frame rate back to its original format to bring out the detail—a process commonly referred to as reverse 3:2 pulldown.

DVI-HDTV Input

The DVI-HDTV input lets you connect a component with a DVI (Digital Visual Interface) output. DVI provides an uncompressed, digital video interface developed for high-bandwidth digital connection. It supports the overlay of high-resolution graphics needed by some electronic program guide navigation and other interactive services. DVI, when combined with HDCP (High bandwidth Digital Content Protection) technology, creates a protected digital connection. The DVI-HDTV connection is designed to display either progressive scan (480p or 720p) or HDTV (1080i) signals at a bandwidth of up to 1.78 Gigabits per second.

mp3 Audio Disc Playback

Description: Your DVD player can play compatible mp3 audio files recorded on CD-R discs.

Requirements: The discs must be recorded on compatible equipment (Chapter 3 has details) and the DVD player must be on.

The On-Screen DVD Information Display

Description: The Info Display is an on-screen banner that provides access to certain features while you're playing a disc. Icons represent the different features supported by your HDTV/DVD when in DVD mode. By selecting different Info Display icons, you can access features including Repeat, Audio, Subtitles and Camera Angle.

Requirements: Put your HDTV/DVD in DVD mode and insert a disc into the disc tray. Once the disc starts playing, press INFO to view the Info Display.

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Chapter 1: Connections & Setup

Things to Consider Before You Connect

Protect Against Power Surges

- Connect all components before you plug any of their power cords into the wall outlet.
- Turn off the HDTV/DVD and/or component before you connect or disconnect any cables.
- Make sure all antennas and cables are properly grounded. Refer to the Important Safety Instructions on page 1.

Protect Components from Overheating

- Don't block ventilation holes on any of the components. Arrange the components so that air can circulate freely.
- Don't stack components.
- If you place components in a stand, make sure you allow adequate ventilation.
- If you connect an audio receiver or amplifier, place it on the top shelf so the heated air from it won't flow around other components.

Position Cables Properly to Avoid Audio Interference

- Insert each cable firmly into the designated jack.
- If you place components above the HDTV/DVD, route all cables down the side of the back of the HDTV/DVD instead of straight down the middle of the HDTV/DVD.
- If your antenna uses 300-ohm twin lead cables, do not coil the cables. Also, keep the twin lead cables away from audio/video cables.

Use Indirect Light

Don't place the HDTV/DVD where sunlight or room lighting will be directed toward the screen. Use soft or indirect lighting.

Cables Needed to Connect Components to Your HDTV/DVD

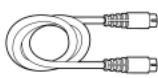
The pictures below show the cables needed for the connections represented in this book. The next two pages explain the inputs and outputs your HDTV/DVD offers for connecting components.



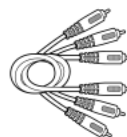
Audio/Video cables



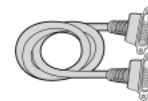
Coaxial cable



S-Video cable



Component Video (Y•Pb•Pr) cables













DVI-HDTV Cable

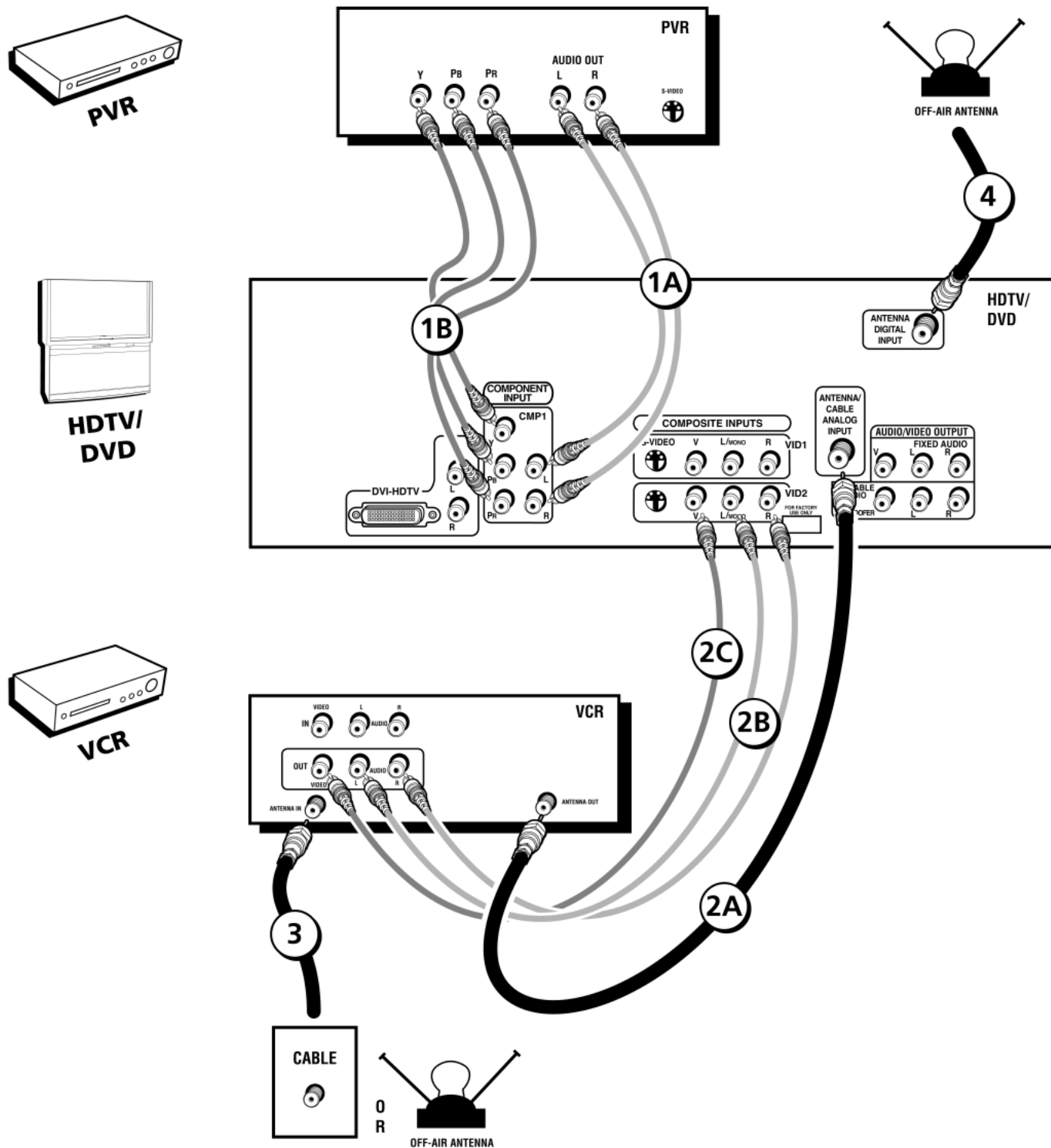
Choose Your Connection

There are several ways to connect your HDTV/DVD. Please use the following chart to determine which connection is best for you. Proceed to the appropriate page and connect your HDTV/DVD.

Note for US customers: If you prefer, we can provide you with the name of an Authorized Service Representative who will visit your home for a fee to install your electronic entertainment system and to instruct you in its operation. For details about this service, call 1-888-206-3359.

Components	Cables Needed	Connection Title	Go to...
Video Connections    HDTV/DVD PVR VCR	Coaxial Audio/video Component video	HDTV/DVD + PVR + VCR	pages 8-9
   HDTV/DVD Satellite VCR	Coaxial Audio/video S-Video	HDTV/DVD + Satellite Receiver + VCR	pages 10-11
DVI Connection   HDTV/DVD DVI component	Audio DVI	HDTV/DVD + DVI component	page 12
Audio Connection   HDTV/DVD A/V receiver	Audio	HDTV/DVD + A/V receiver	page 12

Connections & Setup



HDTV/DVD + PVR + VCR

1. Connect your PVR to your HDTV/DVD.

- A. Connect the audio (white and red) cables to the CMP1 L and R audio input jacks on the back of the HDTV/DVD and to the audio output jacks on the PVR.
- B. Connect three video grade cables to the CMP1 Y Pb Pr jacks on the back of the HDTV/DVD and to the Y Pb Pr jacks on the PVR.

Notes:

If your PVR does not have Y Pb Pr jacks, but does have an S-Video jack, connect the player to the VID1 S-VIDEO jack on the HDTV/DVD using an S-Video cable.

If your PVR does not have an S-Video jack, connect the player to the VID1 V (Video) jack on the back of the HDTV/DVD using a video cable.

Important: *If you use the VID1 S-VIDEO or V (Video) jack to connect your HDTV/DVD to the PVR, you must connect the audio cables to the VID1 L/MONO and R jacks on the HDTV/DVD.*

2. Connect your VCR to your HDTV/DVD.

- A. Connect a coaxial cable to the VCR's antenna output jack and to the ANTENNA/CABLE ANALOG INPUT jack on the HDTV/DVD.
- B. Connect the audio (white and red) cables to the VID2 L/MONO and R audio input jacks on the back of the HDTV/DVD and to the audio output jacks on the VCR.
- C. Connect the video cable to the VID2 V (Video) jack on the back of the HDTV/DVD and to the video output jack on the VCR.

3. Make sure cable or antenna is connected to your VCR.

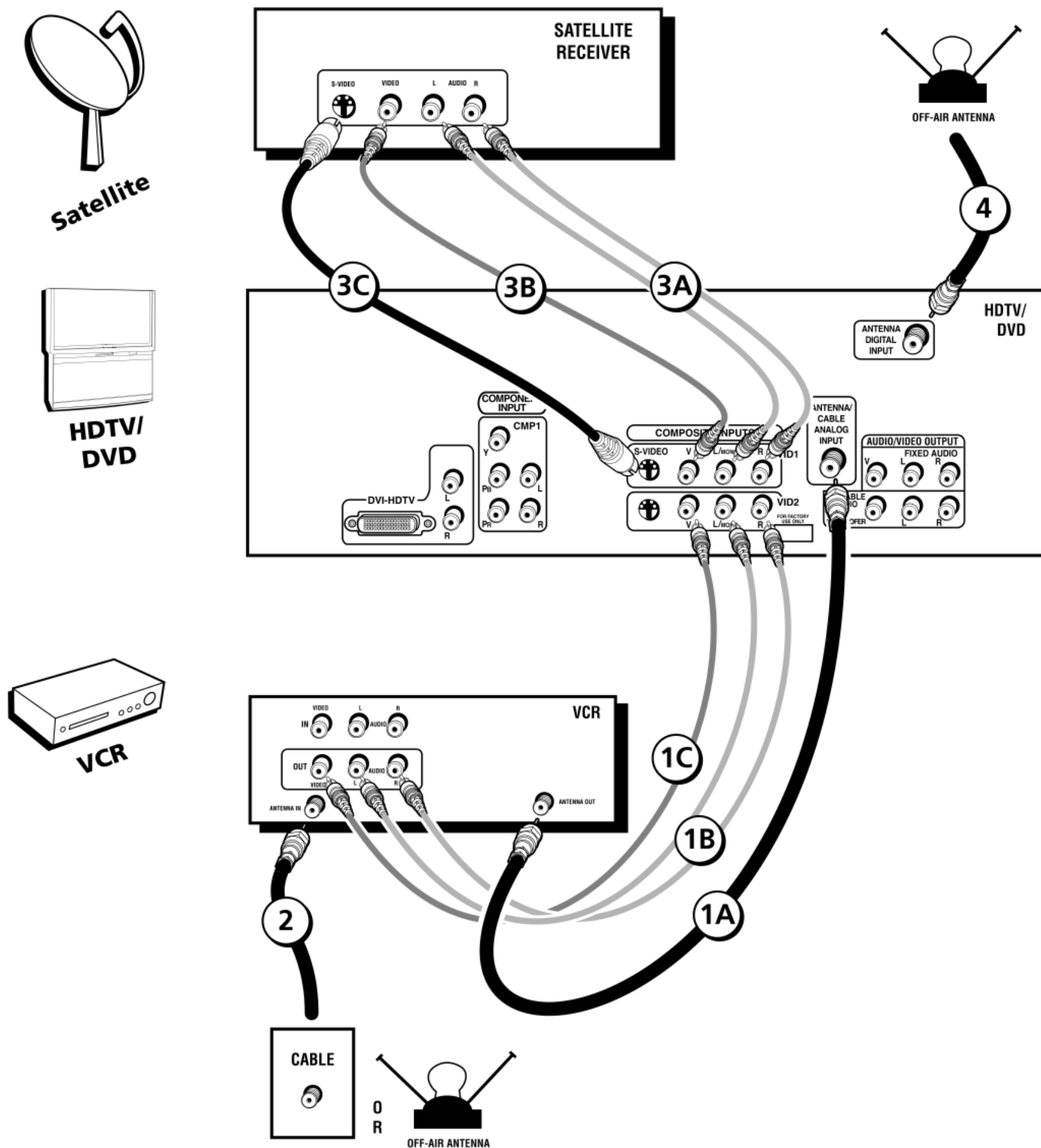
Connect the coaxial cable from your cable outlet or antenna to the antenna input jack on the VCR.

4. Connect the coaxial cable from an off-air antenna to the ANTENNA DIGITAL INPUT jack.

Note: *Do not connect a digital cable signal to this input.*

Go to page 13

Connections & Setup



HDTV/DVD + Satellite Receiver + VCR

1. Connect your VCR to your HDTV/DVD.

- A. Connect a coaxial cable to the VCR's antenna output jack and to the ANTENNA/CABLE ANALOG INPUT jack on the HDTV/DVD.
- B. Connect the audio (white and red) cables to the VID2 L/MONO and R audio jacks on the back of the HDTV/DVD and to the Audio Output jacks on the VCR.
- C. Connect the video cable to the VID2 V (Video) jack on the back of the HDTV/DVD and to the video output jack on the VCR.

2. Make sure cable or antenna is connected to your VCR.

Connect the coaxial cable from your cable outlet or antenna to the antenna input jack on the VCR.

3. Connect your Satellite Receiver to your HDTV/DVD.

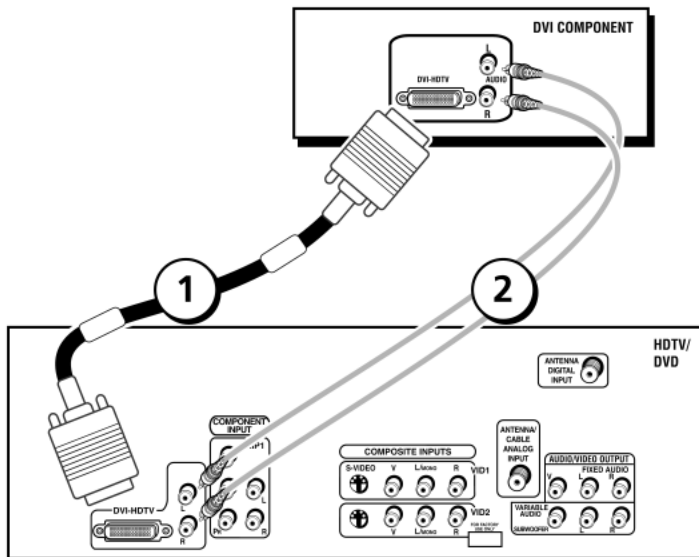
Note: Use the best connection offered by your satellite receiver—if your satellite receiver has component video jacks, connect those.

- A. Connect the audio (white and red) cables to the VID1 L/MONO and R audio jacks on the back of the HDTV/DVD and to the audio output jacks on the satellite receiver.
- B. Connect the video cable to the VID1 V (Video) jack on the back of the HDTV/DVD and to the video output jack on the satellite receiver.
- C. If your satellite receiver has an S-Video jack, connect an S-Video cable (instead of the video cable in step B) to the S-VIDEO jack on the HDTV/DVD and to the S-VIDEO output jack on the satellite receiver.

4. Connect the coaxial cable from an off-air antenna to the ANTENNA DIGITAL INPUT jack.

Note: Do not connect a digital cable signal to this input.

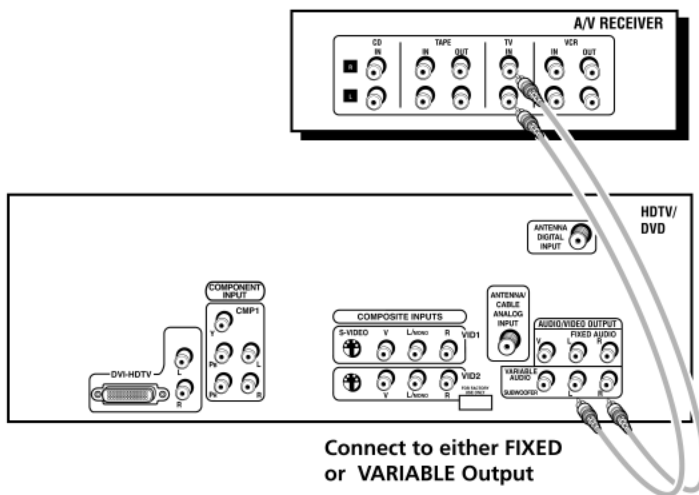
Go to page 13



HDTV/DVD + DVI Component

To connect a DVI Component to your HDTV/DVD:

1. Connect the audio (white and red) cables to the DVI-HDTV L and R audio jacks on the back of the HDTV/DVD and to the audio output jacks on the DVI component.
2. Connect the video cable to the DVI-HDTV jack on the back of the HDTV/DVD and to the DVI jack on the DVI component.



HDTV/DVD + A/V Receiver

These are two different ways your HDTV/DVD uses a component to hear audio.

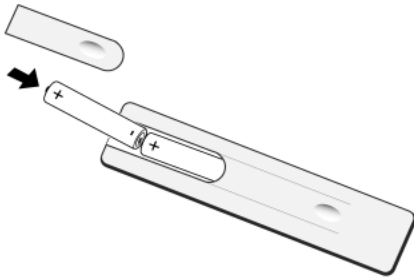
Connect audio cables to either the FIXED or VARIABLE AUDIO L and R OUTPUT jacks and to the audio inputs on the A/V receiver.

Note: If you've connected your VCR or other component to the FIXED outputs on the HDTV/DVD, use the VARIABLE inputs for your A/V Receiver.

- FIXED provides fixed-level audio output from the HDTV/DVD. This audio output is ideal for connecting to an A/V receiver that has its own volume control.
- VARIABLE provides variable-level audio output. Volume levels can be controlled by the volume controls on the HDTV/DVD and its remote control.

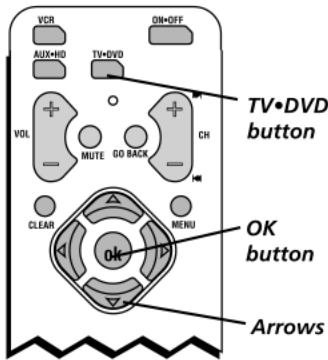
Plug in the HDTV/DVD

Plug the flat end of the cable into the power jack on the back of the HDTV/DVD. Then plug the other end of the power cord into an appropriate wall outlet. Be sure to insert the plug completely. Do not plug the HDTV/DVD into an outlet controlled by a light switch.



Put batteries in the remote

- Remove the battery compartment cover from the back of the remote by pushing the tab and lifting off the cover.
- Insert 2 fresh batteries. Make sure the polarities (+ and -) are aligned correctly.
- Replace the cover.



How to Use the Remote Control to Complete the Initial Setup

The technical term is “Navigation” – how you move through the on-screen menus. The theory is the same throughout the menu screens: highlight your choice and select it.

To highlight a menu item, press the arrow buttons on the remote to highlight one of the items listed on the screen. Use the up or down arrow button to move up or down. Use the right or left arrow button to move right or left.

To select the item that you’ve highlighted, press OK.

Note: Highlighted means that the menu item stands out from other menu items on the list (appears darker, brighter, or a different color).

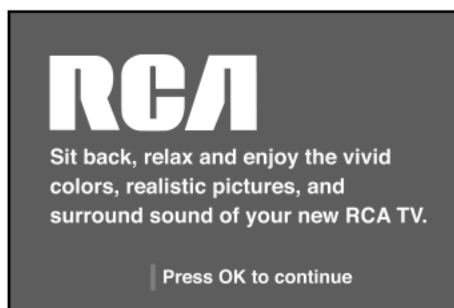
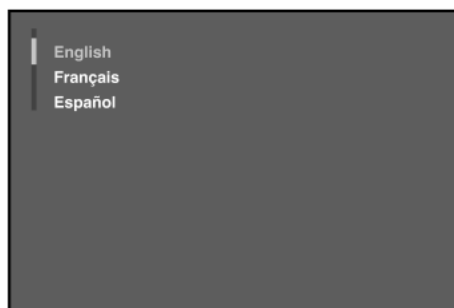
Turn on the HDTV/DVD

Press TV+DVD on the remote, or press the Power button on the HDTV/DVD’s front panel.

Note: Pressing the TV+DVD button turns on the HDTV/DVD and puts the remote into TV mode. “TV mode” means that the buttons on the remote control operate the HDTV/DVD’s functions.

Tip

To access the setup menus manually, press **MENU** and choose **SETUP**.



Complete the Initial Setup

The menu system in your HDTV/DVD allows the HDTV/DVD's features to work properly. The first time you turn on your HDTV/DVD, the setup screens appear.

Set the Menu Language

The first part of the setup allows you to select your preferred language for the menu system.

If English is your preferred language, press OK. If you want to choose another language, press the down arrow button until that language is highlighted, and press OK.

Welcome Screen and Connection Confirmation

The next screen welcomes you to your new RCA TV. Press OK to continue with the setup. After the welcome screen, the initial setup asks you to make sure that you've connected the HDTV/DVD to your cable or antenna signal. Once you've confirmed that the HDTV/DVD is connected, press OK. The *Channel setup* screen appears.

Complete the Auto Channel Search

The *Channel setup* screen lets you set your signal source and search for the available channels on that source. The Auto channel search allows the HDTV/DVD to search for all the viewable channels on both of your tuners—for digital or analog channels—or on each antenna separately. This is sometimes called *auto programming*.

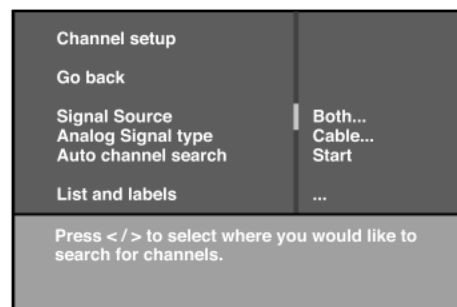
When you first turn on your HDTV/DVD, it's set to search on both tuners.

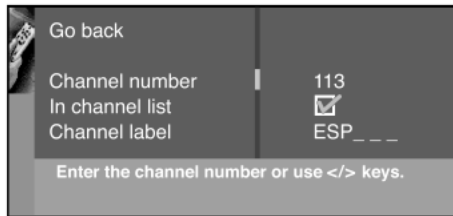
To search for channels on the both tuners:

1. Make sure the *Signal Source* is set to *Both*. If it's not, use the right arrow to change the setting to *Both*.
2. Press the down arrow button on your remote control to highlight *Analog Signal Type*.
3. Use the right arrow button to choose the signal type you're receiving on the analog tuner—either *UHF/VHF Antenna* for an off-air antenna or *Cable*.
4. Press the down arrow button on your remote control to highlight *Auto channel search*.
5. Press OK to start the Auto channel search on both tuners.

When the channel search is complete, press OK to access the *List & Labels* screen.

Note: The Auto Channel Search looks for channels for the Signal Source you choose—*analog*, *digital*, or *both*. To perform the Auto Channel Search for just one tuner separately, choose that tuner in step 1 above. Then, complete the rest of the steps above.





Changing Lists and Labels

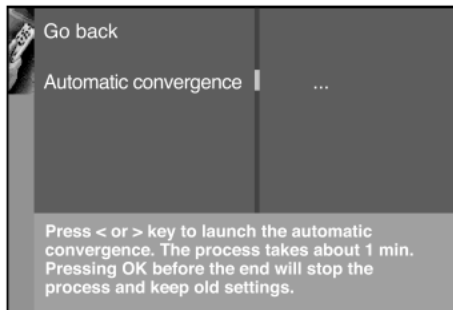
The List & Labels part of the setup lets you edit your channel list and choose or create a personal six-character label for each channel.

Note: *Changing List and Labels can be time consuming. You can change these at a later time by accessing the Setup menu.*

1. Press the left or right arrow button to scroll through the channels and choose the one you want to edit.

Note: *Labels for digital channels cannot be changed—they come from the signal sent by the broadcaster. If you're on a digital channel and you want to switch to an analog channel, press the ANTENNA button on your remote.*

2. Press the down arrow to highlight the *In channel list* option. Press the left or right arrow button to add (the box is checked) or remove (the box is unchecked) the channel from the list.
3. Press the down arrow to highlight the *Channel label* option. Press the left or right arrow button to scroll through the available list of 25 most common labels. The last option in the list allows you to create your own six-character label for the channel (the first letter of the label is highlighted).
4. Press the 1 or 2 number button to change the first letter of the label.
5. Press the right arrow to highlight the second letter, then press the 1 or 2 number button to change the second letter, etc...
6. When you are finished creating your label, press OK. Select *Go back* to go to the *Auto Convergence* menu.



Automatic Convergence

Your HDTV/DVD's picture tubes might have been disturbed during delivery or after you moved the HDTV/DVD, causing the color in your HDTV/DVD to be out of alignment. The colors adjust by starting auto convergence.

IMPORTANT: *Auto convergence works best once the HDTV/DVD has warmed up for at least an hour. If you've just unpacked your HDTV/DVD, it's a good idea to repeat the Auto convergence function when the HDTV/DVD's been running for at least an hour. See page 50 for more information about Auto convergence.*

1. Press OK to begin auto convergence.
2. When the auto convergence is complete, the *Red center convergence* menu appears. The cross in the middle of the screen should be yellow. If it is not, use the arrow buttons to move the red cross to overlap the green cross. Press OK when adjustments are complete.
3. The *Blue center convergence* menu appears with a cyan cross in the middle of the screen. If it is not, use the arrow buttons to move the blue cross to overlap the green cross. Press OK (the HDTV/DVD tunes to the last selected/available channel in the channel list).

Note:

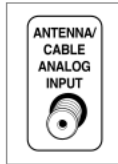
If you're using an HD source (such as a separate HDTV tuner or HDTV satellite receiver) on the CMP or DVI input, you should run Auto convergence separately for that input as well. Tune to the input you're using for the HD source, then follow the instructions as described to the right.

Explanation of Jacks

This section describes the jacks you can use for connections. There are several ways to connect components to your HDTV/DVD.

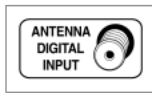
Back Panel Jacks (in alphabetical order)

ANTENNA/CABLE ANALOG INPUT Lets you connect a coaxial cable to receive the signal from the antenna, cable, cable box, or a VCR. This input jack is for analog signals only.



ANTENNA DIGITAL INPUT Lets you connect the coaxial cable from an off-air antenna to receive the off-air digital signals.

***Note:** Do not connect a digital cable signal to this input.*



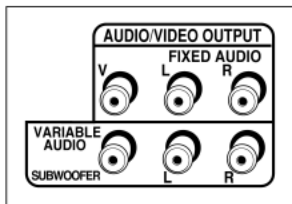
AUDIO/VIDEO OUTPUT Lets you connect an amplifier or audio receiver for improved sound quality. You can also connect a VCR or external monitor to the FIXED outputs.

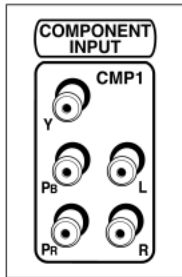
- **V** Provides a standard-definition video output from your HDTV/DVD. You can use this video output along with the FIXED AUDIO L/R outputs to connect a VCR for recording programs in standard definition from the analog antenna input. You can also connect this output jack to an external monitor to watch standard definition programs.

***Note:** The V output does not carry video from the digital tuner.*

- **FIXED AUDIO L/R** Provides fixed-level audio output from the HDTV/DVD. You can use these audio outputs along with the video output to connect a VCR for recording. You can also connect this audio output to an A/V receiver when you want to control the volume through the A/V receiver.
- **VARIABLE AUDIO** Provides variable-level audio output. Volume levels are controlled by the volume controls on the HDTV/DVD and remote control.
- **SUBWOOFER** Provides lower bass audio frequencies from the HDTV/DVD to a subwoofer.

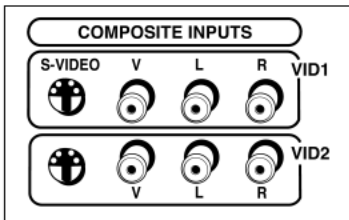
***Note:** If you've connected a subwoofer, make sure you set the External Subwoofer option in the Sound menu. Go to page 42 for instructions.*





COMPONENT INPUT Lets you connect a component video source, such as a DVD player.

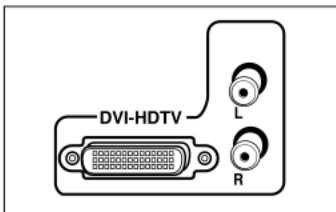
- **CMP1 Y Pb Pr (Component Video)** Provides optimum picture quality because the video is separated into three signals. Use three video-grade cables for the connection. When using CMP1 Y Pb Pr, make sure to connect left and right audio cables to the CMP1 L and R Audio Input jacks.
- **CMP1 L (Audio)** Provides left audio connection. The left audio connector is usually white.
- **CMP1 R (Audio)** Provides right audio connection. The right audio connector is usually red.



COMPOSITE INPUTS Lets you connect another component such as a VCR or DVD player. Its AUDIO jacks are the same as described for CMP1 above.

- **VID1 S-VIDEO** Provides better picture quality than the video jacks (VID1 and 2 Video) because the color part of the picture is separated from the black and white part of the picture. When using VID1 S-VIDEO, make sure to connect left and right audio cables to the VID1 L/MONO and R Audio Input jacks.
- **VID1 V (Video)** Provides composite video connection. The video connector is usually yellow.
- **VID2 S-VIDEO, V and L/MONO and R Audio** Allows you to connect a component such as a VCR or DVD player. Their description is the same as VID1 above.

***Note:** For each VID jack group (VID1 and VID2), you may connect either an S-Video or Video cable. Do not connect both at the same time in either of the VID jack groups.*



DVI-HDTV Input Lets you connect a component with a DVI output.

***Important:** The DVI-HDTV input is not intended for use with a computer.*

- **DVI (Digital Visual Interface)** Provides an uncompressed, digital video interface developed for high-bandwidth digital connection. It supports the overlay of high-resolution graphics needed by some electronic program guide navigation and other interactive services. DVI, when combined with HDCP (High bandwidth Digital Content Protection) technology, creates a protected digital connection. The DVI-HDTV connection is designed to display either progressive scan (480p) or HDTV (1080i) signals at a bandwidth of up to 1.78 Gigabits per second.
- **L (Audio)** Provides left audio connection when using the DVI jack. The left audio connector is usually white.
- **R (Audio)** Provides right audio connection when using the DVI jack. The right audio connector is usually red.

***Note:** Remember to connect the left and right audio cables because the DVI cable carries only the picture signal, not the sound.*

The Front of Your HDTV/DVD

Front Input Jacks

The HDTV/DVD has front inputs for convenience: one set of audio/video input jacks, an S-Video jack and a headphones jack. The jacks are ideal for using a video game console or a camcorder. Locate the jacks either on the front of the HDTV/DVD or on one of the sides. To access the component you connected to the front of the HDTV/DVD, press the INPUT button on your remote until *FRNT* appears on the screen.

Note: *When connecting a component that uses a monaural cable, such as some camcorders, use the Left (mono) input jack to get sound from both speakers.*

PHONES Allows you to connect headphones to listen to the sound coming from the HDTV/DVD. To adjust volume control of the headphones, press the VOL > or VOL < button (the volume display appears). Press the arrow up or down button (the headphone volume display appears), then press the right or left arrow button to adjust the headphone volume.

VIDEO (in) Receives video from another component such as a camcorder, video game console or VCR.

L/MONO and R AUDIO Receives audio from another component such as a camcorder, video game console or VCR.

S-VIDEO (in) Allows you to connect an S-Video cable from another component. Make sure you also connect audio cables from the component to the HDTV/DVD.

Note: *Do not connect an S-Video and a regular video cable to the FRNT jacks at the same time.*

Front Panel Buttons

If you cannot locate your remote, you can use the front panel buttons of your HDTV/DVD to operate many of the HDTV/DVD's features.

OPEN/CLOSE Press to open and close the disc tray.

STOP Stops DVD disc play.

PLAY Begins DVD disc play.

MENU/OK Brings up the TV Main menu. In the menu system, it selects highlighted items.

CH + Scans down through the current channel list. In the TV menu system, acts like down arrow button on the remote control and adjusts menu controls.

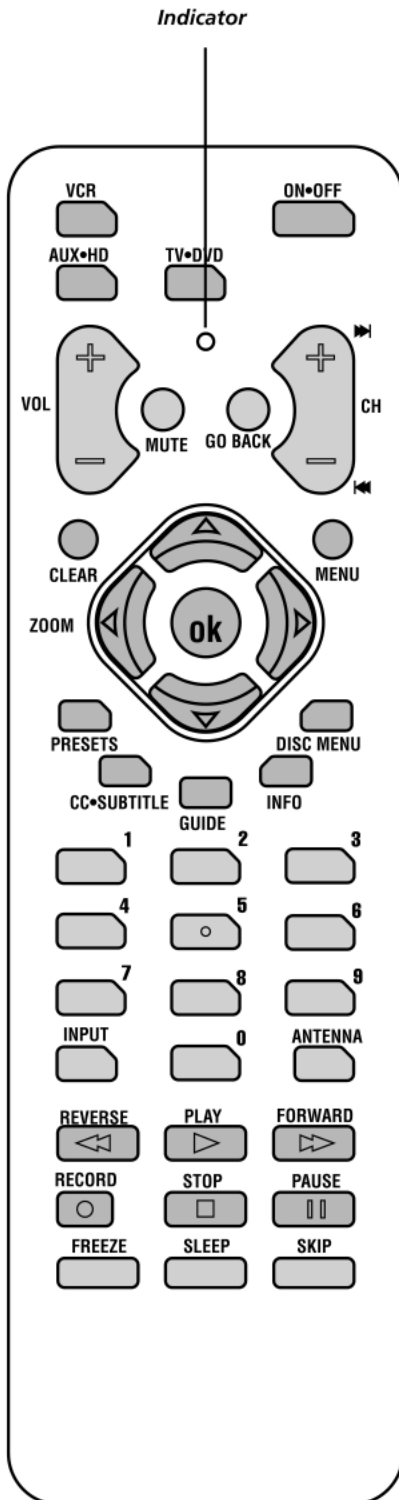
CH - Scans up through the channel list. In the TV menu system, acts like up arrow button on the remote control and adjusts menu controls.

VOL < Decreases the volume. In the TV menu system, acts like left arrow button on the remote control and adjusts menu controls.

VOL > Increases the volume. In the TV menu system, acts like right arrow button on the remote control and adjusts menu controls.

POWER Turns the HDTV/DVD on and off.

Chapter 2: Using the Remote Control



The Buttons on the Remote Control

(0-9) Number Buttons Enter channel numbers and time settings directly through the remote control.

To enter a one-digit channel, enter a zero first. To enter a two-digit channel, press the two digits. To enter a three-digit channel, press and hold the 1 button until 1 and two dashes (--) appear, then add the second two digits. Example: to tune to channel 123, press and hold 1 until 1-- appears, release the 1 button and then press 2 and 3.

ANTENNA In TV mode, this button switches between your HDTV/DVD's analog and digital tuners. In VCR mode (if programmed), this button works as a TV/VCR button for some VCRs. In SAT mode (if programmed), this button works as a TV/SAT button for some satellite receivers.

Arrows Used to highlight different items in the TV or DVD menu and to adjust the menu controls. When watching TV (without menus on the screen), the left and right arrows (ZOOM) change the current format of the screen (4:3, Zoom 14:9, Zoom 16:9, Zoom 16:9 ^/v, Cinerama, regular mode 16:9).

AUX•HD Puts the remote in AUX/HD mode. As a default, this button controls some models of RCA HDTV Tuners. It can also be programmed to operate some brands of additional remote-controllable components.

CC•SUBTITLE In TV mode, displays a reduced Closed Captioning menu, allowing you to turn closed captioning on and off or change the closed captioning mode. Use the up and down arrow buttons to highlight the setting you want to change. Use the left and right arrow buttons to change the highlighted setting. In DVD mode (while a disc is playing), brings up the information banner with the subtitle icon highlighted.

CH + or CH - Scans up or down through the current channel list. Press once to change the channel up or down; press and hold to continue changing channels. In DVD mode (while a disc is playing), these buttons work as chapter advance or chapter reverse buttons.

CLEAR Removes any menu or display from the screen and returns you to normal viewing.

DISC MENU In DVD mode (while a disc is playing), brings up the current disc's menu (if one is available).

FREEZE When watching TV, freezes the picture until you press any button on the remote to resume normal TV viewing. The FREEZE feature automatically times out after a short time. Please note that when you "unfreeze" you go back to live programming (skipping any programming that occurred during the freeze).

Note: The FREEZE feature does not work on signals from the DVI-HDTV or CMP1 inputs in progressive scan (480p) or HDTV (1080i) modes. It also does not work on digital channels.

Do not use the Freeze feature for an extended period of time. This can cause the image to be permanently imprinted on the picture tube. Such damage is not covered by your warranty. Press any button to unfreeze the picture at any time.

GO BACK In TV mode, returns you to the previous channel. In DVD mode, returns to the previous screen.

GUIDE In TV mode, brings up the *Channel Guide* menu. In DVD mode, brings up the DVD guide (if available).

Using the Remote Control

Tip

The indicator flashes when the remote batteries are low and you press a button on the remote.

A warning banner may also appear on the screen when you press a remote button and your batteries are low.

Tip

To turn off all the RCA components connected to the HDTV/DVD, press ON•OFF twice within two seconds.

This feature works with most RCA products.

Note:

The VCR and AUX•HD buttons also turn on most RCA products.

Indicator Indicates the programming mode when programming the remote to control components. The indicator lights up when you press a valid button on the remote. It flickers when the remote batteries are low and you press a button.

INFO In TV mode, makes the channel banner appear and disappear. In DVD mode, makes the info banner appear and disappear.

INPUT Press to toggle through the available input sources (*VID1*, *VID2*, *FRNT*, *CMP1* and *DVI*)—press the CH+ or CH- button to resume TV viewing).

MENU In TV mode, brings up the Main menu. In DVD mode, makes the reduced TV menu appear and disappear.

***Note:** If you've just turned on the HDTV/DVD, the digital tuner takes some time to get ready (usually about 25 seconds). While the digital tuner is getting ready, you won't see the items for functions corresponding to that tuner in the menus. These items will show up once the digital tuner is ready.*

MUTE Reduces the HDTV/DVD's volume to its minimum level. Press again to restore the volume.

OK When in the menu system, selects highlighted items. When watching TV, freezes the picture until you press any button on the remote to resume normal TV viewing. Please note that when you "unfreeze" you go back to live programming (skipping any programming that occurred during the freeze).

ON•OFF When in TV mode, turns the HDTV/DVD on and off. If in another component mode (VCR or AUX•HD) and programmed, will turn the component on and off. When pressed twice within two seconds, the ON•OFF button turns off most RCA components.

PRESETS Displays the Picture and Sound preset settings. Use the up and down arrow buttons to highlight either Picture or Sound settings. Use the left and right arrow buttons to change to a different Picture or Sound preset.

RECORD When the remote is in AUX•HD or VCR mode and programmed to control a recording device (such as a VCR), this button tells the device to start recording. The recording device must be connected to the component you're watching in order for that device to record the program you're watching.

REVERSE, PLAY, FORWARD, STOP, PAUSE In DVD mode, these buttons reverse, play, fast forward, stop, and pause the disc. If the remote's AUX•HD and/or VCR buttons are programmed, these buttons also provide transport control for some remote-controllable devices.

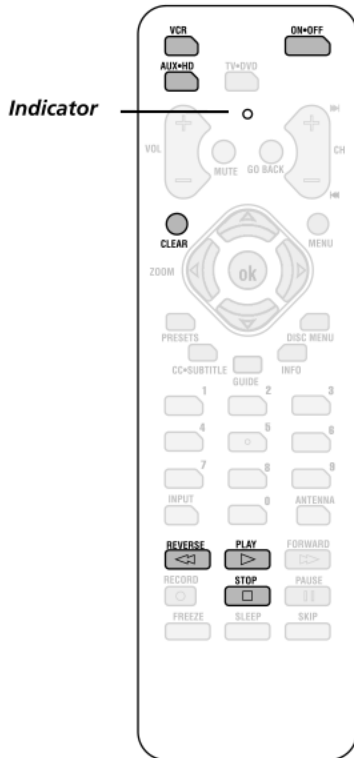
SLEEP Displays the Sleep Timer. Each press adds an additional 15 minutes.

SKIP In TV mode, press once before changing channels and the HDTV/DVD will wait 30 seconds before returning you to the original channel. Press repeatedly to add more time.

TV•DVD Turns on the HDTV/DVD and displays the TV's current status. This button toggles between TV and DVD, and shows the DVD player's status when in DVD mode.

VCR Puts the remote in VCR mode and, if Autotuning is enabled, will turn on the HDTV/DVD and tune to the correct input channel for the VCR.

VOL – or VOL + Decreases or increases the HDTV/DVD's volume.



You'll use these buttons for the Auto Code Search.

Important: The remote may not be compatible with all models of all brands of components. It also may not operate all functions of the remote that came with your component.

Tip

To stop the automatic code search without programming any components, press and hold CLEAR until the indicator on the remote turns off.

Programming the Remote to Operate Other Components

The universal remote can be programmed to operate most brands of remote controllable components. The remote is already programmed to operate most RCA components.

Also, the AUX•HD button can be programmed to operate most brands of an additional remote-controllable component (such as a VCR, DVD player, satellite receiver or cable box).

Note: *The TV•DVD button can't be programmed on this remote.*

Find Out If You Need to Program the Remote

To determine whether the universal remote needs to be programmed to operate one of the components connected to your HDTV/DVD, such as a VCR, do the following:

1. Turn on the component (in this example, a VCR).
2. Point the remote at the component.
3. Press the corresponding component button (in this example, the VCR button).
4. Press ON•OFF to see if the VCR responds. If the VCR doesn't respond, you need to program the remote to operate it.

Programming the Remote

There are two ways to program the remote control:

- automatic code search
- direct entry

Using Automatic Code Search

The following instructions can be used to program the remote to operate each of your components. If you want to stop the automatic code search without programming any of your components, press CLEAR until the indicator on the remote turns off.

1. Turn on the component you want to operate (VCR, satellite receiver, etc.)
2. Press and hold the component button you want to program (VCR or AUX•HD). While holding the component button, press and hold ON•OFF until the indicator on the remote turns on, then release both buttons.
3. Point the remote at the component. Keep the remote pointed at the component until the end of this step. Press and release PLAY, then wait 5 seconds or until the indicator on the remote stops flashing.

At this point the remote is searching for the correct code to program. If, after 5 seconds, the component you want to operate does not turn off, press PLAY again to tell the remote to search the next set of codes.

Continue pressing PLAY until the component turns off or the indicator light on the remote turns off. If the indicator light turns off, then all codes for that particular component have been tested once. If the component does not turn off, then the remote can't be programmed to operate that component.

Continues on next page...

Using the Remote Control

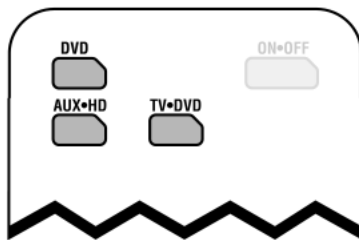
Important

You must continue pressing the component button while you enter the code.

Let's say you have a Zenith VCR. To program the universal remote to operate the VCR, you would:

Press and hold the VCR button while you enter the first code listed for Zenith in the VCR Codes column.

Release the VCR button. Press ON•OFF to see if the VCR responds. If it doesn't, follow the same steps, but enter the second code for Zenith VCR instead of the first.



Component Buttons

Note

Some of the remote's buttons might operate differently for other components, especially when you're using another component's menu system.

If the component you want to control *does* turn off:

1. Press and release REVERSE, then wait 2 seconds. Repeat this step until the device turns back ON.
2. To finish, press and hold STOP until the indicator on the remote turns off. A code that controls your component has been saved to that remote button.

Using Direct Entry

1. Turn on the component to be programmed.
 2. Look up the brand and code number(s) for the component on the code list in this section.
 3. Press and hold the component button you want to program on the remote.
 4. Enter the code from the remote control code list on the following pages. If the indicator flashes, you have either entered an invalid code or the button isn't programmable.
 5. Release the component button. Point the remote at the component. Keep the remote pointed at the component until the end of this step.
Press ON•OFF to see if the component responds to the command. If it doesn't, try pressing the component button and then ON•OFF again.
- If you get no response, repeat these steps using the next code listed for your brand, until the component responds to the remote commands.
 - If you try all the codes for your component brand and none work, try the automatic code search method. If automatic code search doesn't find the code, the remote is not compatible with your component.

How to Use the Remote After You've Programmed It

Because this universal remote can control several different components (TV, VCR, satellite receiver, etc.) it uses operational modes triggered by the component buttons. For example, if you want the remote to control the HDTV/DVD, you would press the TV•DVD button to put the remote into TV•DVD mode before you could control the HDTV/DVD.

1. Press the appropriate component button (VCR, AUX•HD, or TV•DVD) to set the remote to control the component.
2. Press ON•OFF to turn the component ON or OFF.
3. Use the remote buttons that apply to that component.

Notes: The remote may not be compatible with all brands and models of components. It also may not operate all functions of the remote that came with your component.

If you keep pressing buttons and nothing happens, the remote is probably in the wrong mode. You must press the component button that matches the component you want to operate (i.e., if you want to operate the VCR, press VCR on the remote control to put the remote in VCR mode.)

Using the INPUT Button

Use the INPUT button to scroll through the available input channels and view components you have connected to the HDTV/DVD.

1. Press TV•DVD to place the remote in TV mode. Make sure the component you want to view is turned ON.
2. Press INPUT to tune to an available input channel.
3. To return to the channel you were previously watching on TV, press CH+ or CH- button.

VCR Codes

Programmable for the VCR or AUX•HD buttons.	
Admiral.....	2132
Adventura	2026
Aiko.....	2027
Aiwa.....	2026
Akai.....	2003, 2004, 2005, 2007, 2008, 2111, 2112, 2113
American High.....	2021
Asha.....	2013
Audio Dynamics.....	2009, 2010
Audiovox.....	2014
Bell & Howell.....	2011
Beaumarck.....	2013
Broksonic.....	2012, 2025
Calix.....	2014
Candle.....	2013, 2014, 2015, 2016, 2017, 2018, 2019
Canon.....	2021, 2022, 2114
Capehart.....	2020, 2110
Carver.....	2062
CCE.....	2027, 2061
Citizen	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2027
Colortyme.....	2009
Colt.....	2061
Craig.....	2013, 2014, 2023, 2061
Curtis-Mathes.....	2000, 2009, 2013, 2016, 2018, 2021, 2022, 2024, 2115, 2131
Cybernex.....	2013
Daewoo.....	2015, 2017, 2019, 2025, 2026, 2027, 2028, 2110
Daytron.....	2110
DBX.....	2009, 2010
Dimensia.....	2000, 2131
Dynatech.....	2026
Electrohome.....	2014, 2029
Electrosonic.....	2014
Emerson.....	2012, 2014, 2015, 2021, 2024, 2025, 2026, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2044, 2045, 2046, 2047, 2065, 2113, 2116, 2117, 2130
Fisher.....	2011, 2023, 2048, 2049, 2050, 2051, 2052, 2118
Fuji.....	2021, 2119
Funai.....	2026
Garrard.....	2026
GE.....	2000, 2001, 2013, 2021, 2022, 2053, 2115, 2120, 2131
Goldstar.....	2009, 2014, 2018, 2054
Gradiente.....	2026
Harley Davidson.....	2026
Harman Kardon.....	2009
Harwood.....	2061
Headquarter.....	2011
Hitachi.....	2055, 2056, 2057, 2107, 2111, 2120, 2122
Hi-Q.....	2023
Instant Replay.....	2021
JCL.....	2021
JC Penney.....	2009, 2010, 2011, 2013, 2014, 2021, 2022, 2055, 2056, 2058, 2059, 2060, 2107, 2118
Jensen.....	2055, 2056, 2111
JVC.....	2009, 2010, 2011, 2018, 2111, 2123
Kenwood.....	2009, 2010, 2011, 2016, 2018, 2111, 2123
KLH.....	2061
Kodak.....	2014, 2021
Lloyd.....	2026
Logik.....	2061
LXI.....	2014
Magnavox.....	2021, 2022, 2062, 2063, 2104, 2105, 2108, 2124
Magnin.....	2013
Marantz.....	2009, 2010, 2011, 2016, 2018, 2021, 2062, 2064
Marta.....	2014
Masushita.....	2021
Mei.....	2021
Memorex.....	2011, 2013, 2014, 2021, 2023, 2026, 2104, 2132
MGA.....	2029, 2065, 2113
MGN Technology.....	2013
Midland.....	2053
Minolta.....	2055, 2056, 2107
Mitsubishi.....	2029, 2055, 2056, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2106, 2113, 2123
Montgomery Ward.....	2075, 2132
Motorola.....	2021, 2132
MTC.....	2013, 2126
Multitech.....	2013, 2016, 2026, 2053, 2061
NEC.....	2009, 2010, 2011, 2016, 2018, 2064, 2076, 2078, 2079, 2111, 2123
Nikko.....	2014
Noblex.....	2013

Olympus.....	2021
Optimus.....	2014, 2132
Optonica.....	2096
Panasonic.....	2021, 2022, 2109, 2125, 2126, 2127
Pentax.....	2016, 2055, 2056, 2107, 2120
Pentax Research.....	2018
Philco.....	2021, 2022, 2062, 2063
Philips.....	2021, 2062, 2096, 2124
Pilot.....	2014
Pioneer.....	2010, 2055, 2080, 2081, 2123
Portland.....	2016, 2017, 2019, 2110
Proscan.....	2000, 2001, 2131
Protec.....	2061
Pulsar.....	2104
Quarter.....	2011
Quartz.....	2011
Quasar.....	2021, 2022, 2125
RCA.....	2000, 2001, 2003, 2013, 2021, 2055, 2056, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2107, 2115, 2120, 2125, 2131, 2133
Radioshack/Realistic.....	2011, 2013, 2014, 2021, 2022, 2023, 2026, 2029, 2049, 2050, 2096, 2132
Radix.....	2014
Randex.....	2014
Ricoh.....	2128
Runco.....	2104
Samsung.....	2005, 2013, 2015, 2033, 2053, 2112
Sanky.....	2104, 2132
Sansui.....	2010, 2092, 2111, 2123
Sanyo.....	2011, 2013, 2023
Scott.....	2012, 2015, 2025, 2032, 2038, 2065, 2093, 2116
Sears.....	2011, 2014, 2021, 2023, 2048, 2049, 2050, 2051, 2055, 2056, 2107, 2118
Sharp.....	2017, 2029, 2094, 2095, 2096, 2097, 2132
Shintom.....	2004, 2056, 2061, 2098
Shogun.....	2013
Signature.....	2132
Singer.....	2021, 2061, 2128
Sony.....	2004, 2098, 2099, 2119
STS.....	2021, 2107
Sylvania.....	2021, 2022, 2026, 2062, 2063, 2065, 2124
Symphonic.....	2026
Tandy.....	2011
Tashiko.....	2014
Tatung.....	2111
TEAC.....	2026, 2085, 2111
Technics.....	2021, 2109
Teknika.....	2014, 2021, 2026, 2100, 2129
TMK.....	2013, 2024, 2047
Toshiba.....	2015, 2049, 2051, 2055, 2065, 2093, 2116
Totevision.....	2013, 2014
Unitech.....	2013
Vector Research.....	2009, 2010, 2015, 2016
Victor.....	2010
Video Concepts.....	2009, 2010, 2015, 2016, 2113
Videosonic.....	2013
Wards.....	2013, 2014, 2015, 2021, 2023, 2026, 2029, 2055, 2056, 2061, 2096, 2101, 2102, 2103, 2107, 2116, 2132
XR-1000.....	2021, 2026, 2061
Yamaha.....	2009, 2010, 2011, 2018, 2111
Zenith.....	2004, 2098, 2104, 2119, 2128

DVD codes

Programmable for the AUX•HD button.

Aiwa.....	3009
Apex.....	3023, 3024
GE.....	3000
Hitachi.....	3008
JVC.....	3002, 3010
Konka.....	3011, 3012
Magnavox.....	3003
Mitsubishi.....	3004
Panasonic.....	3013
Philips.....	3003, 3019, 3021, 3022
Pioneer.....	3005
Proscan.....	3000
RCA.....	3000, 3001
Samsung.....	3025
Sanyo.....	3014
Sony.....	3006, 3015, 3016
Toshiba.....	3007, 3017, 3020
Zenith.....	3018

Cable Box Codes

Programmable for the AUX•HD button.

ABC.....	5002, 5003, 5004, 5006, 5053
Antronix.....	5008, 5009
Archer.....	5008, 5009, 5010
Cabletenna.....	5008
Cableview.....	5008
Colour Voice.....	5012, 5013
Comtronic.....	5014
Contec.....	5016
Eastern.....	5017
GC Electronics.....	5009
GE.....	5000, 5001
Gemini.....	5018, 5019
General Instrument.....	5003
Hamlin.....	5020, 5021, 5022, 5028, 5035, 5045
Hitachi.....	5003
Jerrold.....	5003, 5018, 5023, 5024, 5046, 5053
Magnavox.....	5025
Memorex.....	5026
Movie Time.....	5027
NEC.....	5005
NSC.....	5027
Oak.....	5016, 5029
Panasonic.....	5048, 5052
Philips.....	5011, 5012, 5013, 5015, 5019, 5025, 5030, 5031, 5032
Pioneer.....	5033, 5034
Proscan.....	5000, 5001
RCA.....	5007, 5047, 5049, 5052
Realistic.....	5009
Regal.....	5022, 5035
Regency.....	5017
Rembrandt.....	5003
Samsung.....	5034
Scientific Atlanta.....	5006, 5036, 5037, 5038
Signal.....	5018
Signature.....	5003
Sprucer.....	5052
Standard Components.....	5039, 5044
Starcom.....	5018, 5053
Stargate.....	5018
Starquest.....	5018
Tocom.....	5004, 5023
Tusa.....	5018
TV86.....	5027
Unika.....	5008, 5009
United Cable.....	5053
Universal.....	5008, 5009, 5010
Viewstar.....	5025, 5027
Zenith.....	5050, 5051

Satellite Receiver Codes

Programmable for the AUX•HD button.

Alphastar.....	5079
Chapparral.....	5056, 5057
Dishnet.....	5078
Drake.....	5058, 5059
Echostar.....	5089
GE.....	5000 (SAT1), 5001 (SAT2)
General Instruments.....	5060, 5061, 5062
Hitachi.....	5083, 5084
Hughes Network.....	5077, 5090
JVC.....	5082
Panasonic.....	5075
Philips.....	5085
Primestar.....	5076
Proscan.....	5000 (SAT1), 5001 (SAT2)
RCA.....	5000 (SAT1), 5001 (SAT2), 5071, 5080, 5081
Realistic.....	5063
Sony.....	5072
STS1.....	5064
STS2.....	5065
STS3.....	5066
STS4.....	5067
Toshiba.....	5068, 5073
Uniden.....	5069, 5086

HDTV Tuner Codes

Programmable for the AUX•HD button.

RCA.....	7000
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Chapter 3: Playing DVDs

Regional Coding

Both the HDTV/DVD unit and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes don't match, the disc won't play. This unit's code is region 1.

Using Different Menus

Each disc is programmed with different features. There are three separate menu paths that you can use to access features:

- **The Disc menu** – The disc menu is part of each disc and is separate from the DVD's menu system. The contents of each disc menu vary according to how the disc was authored and what features are included. The disc menu is turned on and off (while the disc is playing) with the PRESETS/DISC MENU button on the remote.
- **The DVD's Info Display** – The Info Display appears as icons across the top of the screen when a disc is playing. It can only be accessed while you are playing a disc. It's turned on and off with the INFO button on the remote.
- **The DVD's menu system** – The DVD player's menu system is accessed only when a disc isn't playing. It appears when the STOP button is pressed.

A feature only works if the disc was programmed with that feature. If a menu item is "grayed out", that item isn't available.

In addition to the DVD menus, the HDTV/DVD offers an abbreviated TV Main Menu while you're using the DVD player. To access the picture, sound and image controls for the TV while using the internal DVD player, press the TV•DVD button on your remote.

Loading and Playing Discs

Your HDTV/DVD unit plays DVD discs, Video CD discs, Audio CD discs, mp3 discs and CD-R discs. Before you load a disc, make sure that it is compatible with the player. The following discs CANNOT be used with this player:

- Laserdiscs, CD-I, CD-ROM (computer-only discs), CD-RW, DVD-ROM, Discs recorded using other broadcast standards (i.e. PAL or SECAM)

To Load and Play a Disc

To put the HDTV/DVD in DVD mode and play a disc, press the DVD button on the remote control.

1. Press the OPEN/CLOSE button on the front of the HDTV/DVD. The disc tray opens.
2. Place a disc gently into the tray with the disc's label facing up (double-sided discs have content on both sides, so you can place either side up).
3. Press the OPEN/CLOSE or PLAY button. The disc tray closes.

The HDTV/DVD reads the disc's table of contents, and then one of three things happens depending on how the disc was programmed:

- The disc starts playing.
- The disc menu appears on the screen. One of the options will start disc play. Highlight that option and press OK on the remote.
- The DVD's main menu appears on the screen. Highlight the Play option and press OK on the remote.

When you stop playing a disc, the unit remembers where you stopped. When you start playing the disc again, the unit picks up where you left off unless the disc is removed, the unit is unplugged, or you pressed the STOP button twice.



This is an example of a one-sided disc.



This is an example of a 2-sided disc. The title is in the center.

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Using a Disc Menu


A disc is capable of having an on-screen menu that is separate from the DVD's menu system and on-screen Info Display. The disc menu might only contain a list of the titles and chapters, or it may allow you to change features such as language and playback settings. The content and operation of disc menus vary from disc to disc.

Using the On-Screen Info Display

The on-screen Info Display contains many playback features. To see the Info Display, press the INFO button on the remote while a disc is playing. The Info Display appears across the top of the screen. Each feature is illustrated with an icon. Use the left/right arrow buttons on the remote to move through the different icons in the Info Display.

When an icon is highlighted, use the up/down arrow buttons on the remote to scroll through the choices displayed in the text box under the icons.

Remember, you can only access the Info Display when you're playing a disc. Also, the Info Display features are only available if the disc was created with that particular feature (i.e., if you select the Subtitle icon, you won't be able to change the subtitle language unless the author of the disc created the disc with subtitles).

The invalid symbol  appears on the screen when you press a button that doesn't have any function. If one of the icons is "grayed out," that Info Display feature isn't available for the disc you're playing. To make the Info Display disappear from the screen, press INFO on the remote.



Note: For information about the Info Display for Audio CDs, Video CDs or mp3 files, go to page 49.

Time Display

This feature displays the audio/video time. For DVD discs, the time displayed refers to the current title time. For Audio CDs, it refers to the current track time.

For DVD video discs, the Time Display also acts as a Time Search feature. This lets you go to a particular scene in a movie by entering the time that scene is played. To use Time Search:

1. Press INFO on the remote to bring up the Info Display. Highlight the Time Display and enter the elapsed time of the scene you wish to go to. For example, enter 01:12:00 to go to the scene that plays at 1 hour and twelve minutes into the movie.
2. If you enter the complete time, the disc automatically jumps to the elapsed time you entered. If you're entering a partial time, press OK on the remote to enter the number.



Selecting a Title

Some discs contain more than one title. Each title is divided into chapters. To select a title:

1. While the disc is playing, press INFO on the remote to bring up the Info Display.
2. If the *Title* icon on the Info Display isn't highlighted, use the left/right arrow buttons to highlight it.
3. Use the number button(s) on the remote to enter the title number or press the up/down arrow buttons to go to the next/previous title.
4. If you enter a complete title number, the disc automatically jumps to the beginning of the title. If you're entering a partial title number, press OK on the remote to enter the number.

Note: Some discs only have one title.



Selecting a Chapter

Because DVD discs use digital technology, a title can be divided into individual chapters (similar to tracks on a CD). You can skip to a specific chapter by using the Chapter feature in the Info Display.

1. While a disc is playing, press INFO on the remote to bring up the Info Display.
2. Press the left/right arrow buttons to highlight the *Chapter* icon.
3. Use the number buttons on the remote to enter the number of the chapter you want to play or press the up/down arrow buttons to go to the next/previous title.
4. To make the Info Display disappear, press the INFO button on the remote.

Notes: The Chapter feature won't work if the disc isn't formatted with separate chapters.

Press CH+ or CH- on the remote to highlight the Chapter icon. Then press CH+ to advance to the next chapter or CH- to go to the preceding chapter.



Selecting Subtitles

By default, subtitles are off. To turn subtitles on and change the Subtitle language while you're watching a disc:

1. While the disc is playing, press CC•SUBTITLE on the remote.
2. Press the left/right arrow buttons to highlight the *Subtitle* icon.
3. Use the up/down arrow buttons to turn subtitles on or off, and to scroll through the subtitle languages that are available on the disc. If subtitles aren't available, the text in the text box will read *Subtitles: Not Available*. If subtitles are available, the language currently showing in the text box is the active selection. The subtitles will be shown in that language.
4. To make the Info Display disappear, press the INFO button on the remote.

Notes: Subtitles are only available if the disc was created with subtitles.

Changing the subtitle language with the Info Display will only affect the disc currently being played. When the disc is removed or the unit is turned off, the subtitle language will revert to the language setting specified through the DVD's main menu. The subtitle language can also be changed through the DVD's main menu.



Changing the Audio Language

If the disc was created with different language tracks (recorded in different languages), you can use the Info Display to temporarily change the DVD's Audio Language setting.

1. While a disc is playing, press INFO on the remote.
2. Press the left and right arrow buttons to highlight the audio icon. The current audio language appears in the text box below the row of icons.
3. Press the up/down arrow buttons to scroll through the audio languages available on the disc until the audio language you want to use appears in the text box. Audio will be played in that language.
4. To make the Info Display disappear, press the INFO button on the remote.

Notes: The language feature only works if the disc was created with multiple audio tracks.

When you choose an audio language from the Info Display, you only override the audio language setting in the DVD's main menu temporarily. The audio language can also be changed through the DVD's main menu.



Using the Repeat Feature

The default mode for the Repeat feature is Off. There are four Repeat options:

- Disc – repeats the disc that is playing
- Title – repeats the title that is playing
- Chapter – repeats the chapter that is playing
- A•B – Set the beginning (point A) and the end (point B) to make this part of the movie play repeatedly.

To Use Repeat:

1. While a disc is playing, press INFO on the remote to bring up the Info Display.
2. Highlight the Repeat icon. The text in the text box below the icons will read *Repeat Mode: Off*.
3. Press the up/down arrow buttons to scroll through the Repeat options until the Repeat option you want is displayed in the text box.
4. Press OK. The selected repeat option will loop repeatedly until you turn Repeat off. Repeat is turned off by completing steps 1 through 3 above, and selecting the Off option.

A•B Repeat

A•B Repeat lets you define a specific segment on the disc that you want to repeat. For example, you might like to watch the dogfight in the movie *Top Gun*. To watch this scene over and over:

1. Find the spot on the disc that is a few seconds *before* the beginning of the scene you want to repeat (this gives you time to access the Info Display and the Repeat feature).
2. Press INFO on the remote and select the Repeat icon from the Info Display.
3. Press the up/down arrow buttons until the A•B Repeat option is shown in the text box underneath the icons. The text box reads *Repeat Mode: A-B Press OK to Set A Point*.
4. At the beginning of the scene you want to repeat, press OK to set the A point.
5. When you get to the part of the disc that you want to be the end of the repeated segment (the B point), press OK. The segment will repeat until you turn Repeat off.
6. To make the Info Display disappear from the screen, press the INFO button on the remote.

How to Cancel Repeat

There are three ways to cancel Repeat:

- Press STOP twice.
- Go to the Repeat icon in the Info Display and select *Off*.
- Eject the disc.



Changing the Camera Angle

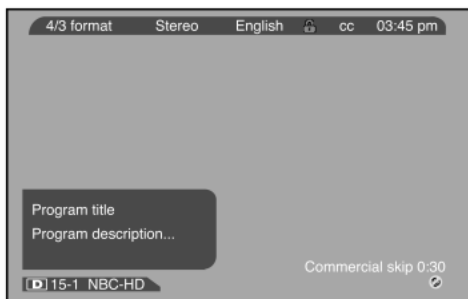
Some discs contain multiple angles of a particular scene or sequence. If the disc only has one angle, this feature won't work. When multiple angles are available, the Camera Angle icon appears in the upper right corner of the screen. To change the camera angle:

1. While a disc is playing, press INFO on the remote.
2. The Camera Angle icon will display the number of angles available. For example, if there are 3 different angles, the icon will read 1 of 3. This means angle 1 is currently being played.
3. The text box beneath the icons displays *Camera Angle: 1*. Use the up/down arrow buttons to scroll through the camera angle choices. The camera angle number displayed in the text window is automatically shown.
4. To make the Info Display disappear, press the INFO button on the remote.

Chapter 4: Using the TV's Features

Channel Banner

There are several indicators that might appear when you press the TV•DVD or INFO button on the remote. What you see depends on the tuner you're watching (digital or analog) and the information available for the current program. This display is called the Channel Banner. The list at the bottom of this page describes the items on the Channel Banner screen (left to right and top to bottom).



Sample channel banner on the digital tuner.




Sample channel banner on the analog tuner.

4/3 format Current screen format.

Mono (or Stereo) *Mono* appears when the current channel is broadcasting in mono. *Stereo* appears when the current channel is broadcasting in stereo.

English (Digital tuner only) The current audio language.

SAP (Analog tuner only) The current channel is broadcasting SAP (Second Audio Program) information.

 Parental Controls are locked.


CC On the digital tuner, shows that Closed Captioning is turned on. On the analog tuner, shows that Closed Captioning is available on the current channel.

03:45 pm Current time.

Program title (Digital tuner only) The title of the current program (if this information is available).

Program description (Digital tuner only) A brief description of the current program (if this information is available).

 Shows that you're currently viewing a channel on the digital tuner.

 Shows that you're currently viewing a channel on the analog tuner.

15-1 NBC-HD Current channel and subchannel (subchannels are available on the digital tuner only), plus the channel label.

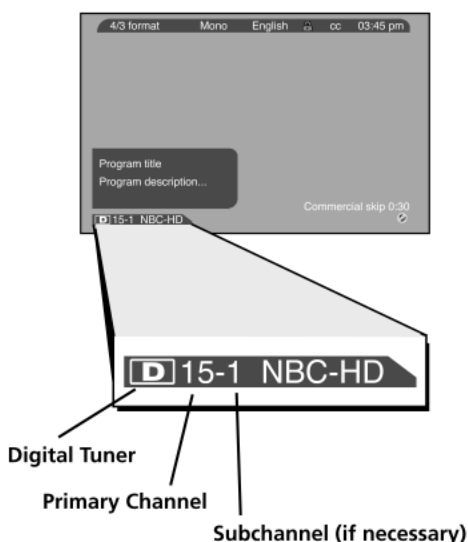
Note: Channel labels for digital channels are part of the signal sent by the broadcaster, so you cannot change them. Channel labels for analog channels do not always come from the broadcaster, so you can create them and change them as you like.

Commercial skip 0:30 Shows the time remaining on the commercial skip (SKIP) timer.

 Sound is muted.

Tip:

Look at the channel number to determine whether you're on the digital or analog tuner. A 'D' appears next to channel numbers on the digital tuner, while an 'A' appears next to channel numbers on the analog tuner.



Digital and Analog Tuners

Your HDTV/DVD has two tuners: one for regular, analog TV channels and one for digital channels. You can switch between the two by pressing the ANTENNA button on your remote control when the remote is in TV mode.

Digital Channels

Digital channels can be made up of primary channels and subchannels. Subchannels (sometimes called minor channels) are channels associated with the Primary channel (sometimes called the major channel). A primary channel may have just one subchannel or multiple subchannels.

Direct Tuning to a Channel on the Digital Tuner

1. Make sure the remote is in TV mode by pressing TV•DVD on the remote control.
2. Press ANTENNA until a "D" icon appears next to the channel number.
3. Enter the primary channel number. This number appears first. Press OK or wait a few seconds. If you don't enter a subchannel, the HDTV/DVD tunes to the lowest digital subchannel.
4. If the primary channel number has fewer than two digits, and you want to enter subchannel numbers, press the right arrow button to enter the subchannel.
5. Enter the number of the subchannel. This number appears to the right of the primary channel number.
6. Press OK to tune to the channel or wait a few seconds and the HDTV/DVD tunes to the channel.

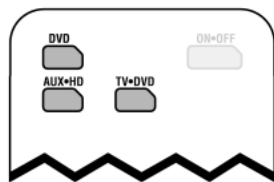
Note: Once you've run the auto channel search on a tuner, you can just use the channel up and down buttons on the remote control to change channels when the remote's in TV mode.

Autotuning

The autotuning feature automatically tunes the HDTV/DVD to the correct channel/input for different components you have connected to your HDTV/DVD (like a VCR, DVD player, etc.) When you set up autotuning in the menu system you don't have to remember to change your HDTV/DVD to the CMP1 input, for example, when you want to watch a DVD on your DVD player.

Why You Should Use the Autotuning Feature

Autotuning lets you go directly to the input you assign to a component button. For example, if you have a DVD player connected to the CMP1 input, you can have the autotuning feature go directly to the CMP1 input when you press the DVD button (instead of going through the inputs until you find the DVD signal).

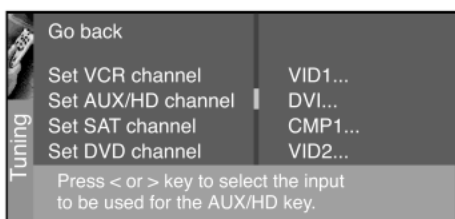
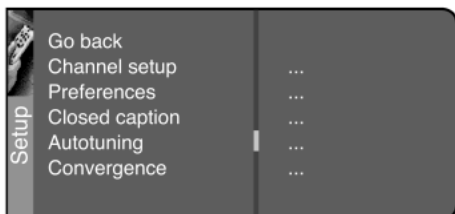


Your remote's component buttons

Using the TV's Features

How to Set Up the Autotuning Feature

The way you set up the autotuning feature in the TV's menu corresponds to the component buttons on the remote and the way you have each component connected to your HDTV/DVD. When you set up autotuning, you're telling the HDTV/DVD what channel/input to tune to when you press the DVD or AUX•HD button on the remote control.



Important Note About Autotuning

The Autotuning feature is configured to work with universal remote controls that are capable of controlling up to four component devices in addition to the HDTV/DVD.

The remote that came with your HDTV/DVD has only two programmable component buttons—the VCR and AUX•HD buttons.

In the Autotuning menu, use the options "Set VCR Channel" and "Set AUX/HD Channel" with the remote that came with your HDTV/DVD. The other Autotuning options are for universal remotes with additional component buttons.

1. Press MENU (the MAIN MENU appears).
2. Highlight *Setup* and press OK on your remote control.

3. Highlight *Autotuning* and press OK.
4. Choose which component button you would like to set:

Set VCR Channel Lets you set up the channel the HDTV/DVD tunes to when you press the VCR button on a separate universal remote.

Set AUX/HD Channel Lets you set up the channel the HDTV/DVD tunes to when you press the AUX•HD button.

Set SAT Channel Lets you set up the channel the HDTV/DVD tunes to when you press the SAT button on a separate universal remote.

Set DVD Channel Lets you set up the channel the HDTV/DVD tunes to when you press the DVD button if the internal DVD player option is disabled (go to page 47 for more information).

5. Press the right arrow button to select the choice that matches the way you have the component connected to this HDTV/DVD, and press OK.

You can select from the following inputs or channels:

N/A Choose this if you don't have a component connected to the HDTV/DVD, or if you don't want the HDTV/DVD to automatically tune to the correct channel/input when you're using this component.

Channel 3 or 4 Component is connected to the CABLE/ANTENNA jack on the back of the HDTV/DVD, and you want the HDTV/DVD to tune to channel 3 when you press the corresponding button on the remote. Reminder: make sure the component's Channel 3/4 switch is set to channel 3.

VID1 or VID2 (Video Input) Component is connected to a VIDEO or S-Video jack on the back of the HDTV/DVD and you want the HDTV/DVD to tune to a VID input channel when you press the corresponding component button.

FRNT (Front Video Input) Component is connected to the VIDEO jack on the front of the HDTV/DVD and you want the HDTV/DVD to tune to the front VID input channel (FRNT) when you press the corresponding component button.

CMP1 (Component Video Input) Compatible component video source, such as a DVD player or digital TV converter box, is connected to the three COMPONENT VIDEO INPUT jacks (Y,PB,PR) on the back of the HDTV/DVD and you want the HDTV/DVD to tune to the component video input channel (CMP1) when you press the corresponding component button.

DVI Component is connected to the DVI-HDTV jack on the back of the HDTV/DVD and you want the HDTV/DVD to tune to the DVI input channel when you press the corresponding component button.

Parental Controls and V-Chip

The choices in the *US V-CHIP* and *Canada V-CHIP* menus involve software inside your HDTV/DVD (referred to as V-Chip) which allows you to block TV programs and movies based on violence, sex, or other content you may believe children should not view.

Once you block programs, you can unblock programs by entering a password.

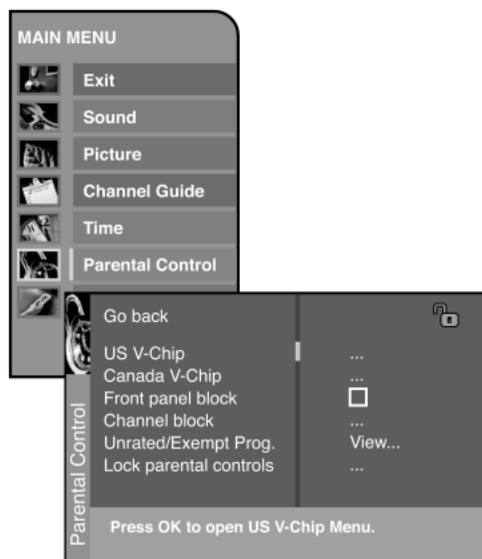
By default, the software inside your HDTV/DVD is turned “off.” For instructions to turn on V-Chip, go to page 35.

Note: *Parental Control settings are not available for the DVI or CMP1 inputs.*

How V-Chip Works for USA and Canada

V-Chip reads the program's age-based rating (TV-MA, TV-14, etc.) and content themes [(Violence (V), Adult Language (L), etc.)]. If you have blocked the rating and/or content themes that the program contains, you will receive the message *This channel has not been approved for viewing. Change channel or press OK to enter password and temporarily deactivate the Parental Control.*

Broadcasters are not required to provide content themes, so programs received with no content themes will only be blocked if you block their age-based rating. You can also block out programs that have been given an Exempt rating, and programs that are considered unrated. Go to Chapter 8 for explanations for the US and Canada ratings.



US V-Chip TV Rating Limit

The V-Chip TV Rating Limit lets you decide which TV programs can and cannot be viewed.

To set TV programming limits:

1. Choose *Parental Control* from the MAIN MENU. If Parental Controls have previously been locked, you must enter your password.
2. Highlight and select *US V-Chip*. Then select *V-Chip TV Rating*.
3. Once you get to the *V-Chip TV rating limit* screen, use the arrow buttons and OK on your remote to change the status of a TV program rating or content theme from *View* to *Block*.
4. For TV rating limits to take effect, lock Parental Controls by accessing the *Lock parental controls* menu.

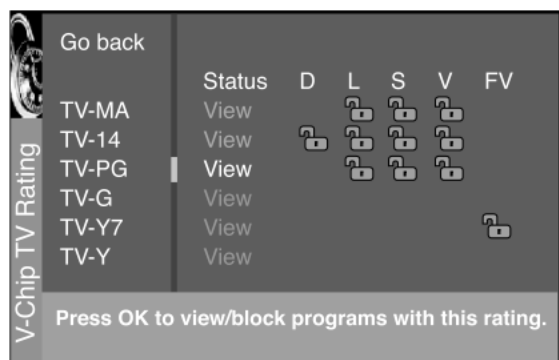
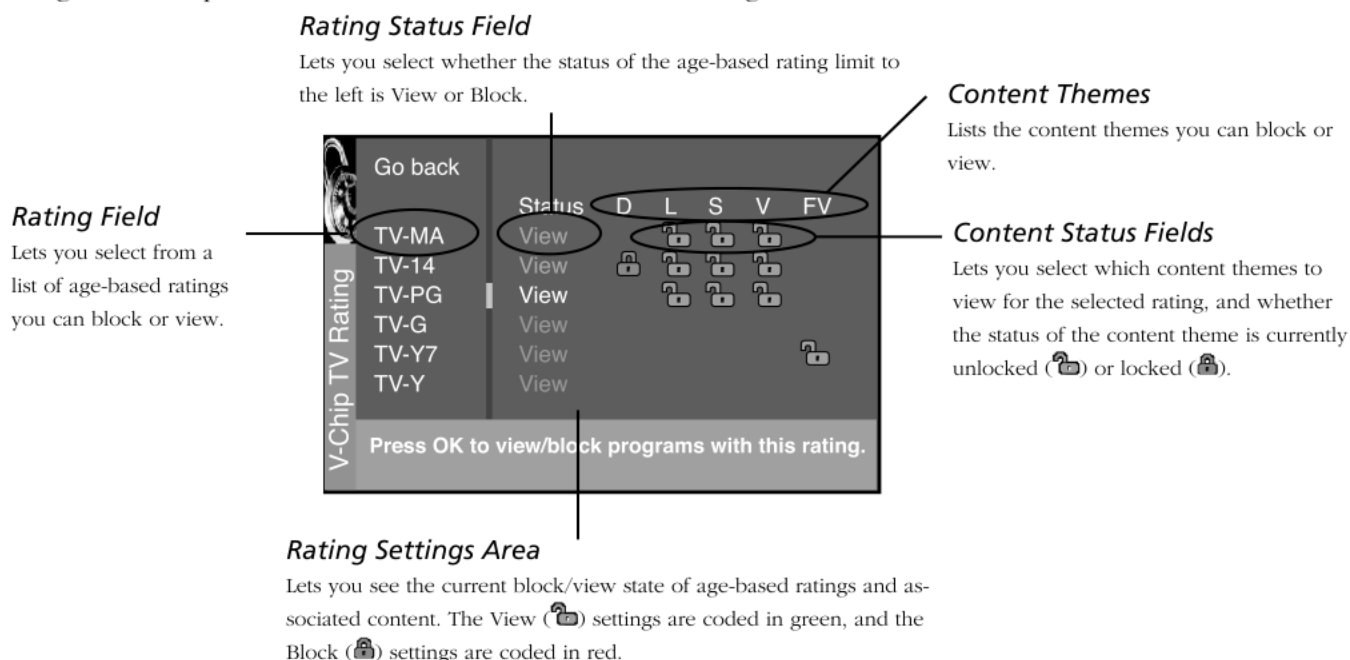
The following sections give you more details about how to change the status of TV program limits.

Note: *If you forget your password, follow step one above to get to the password entry screen. Then press the VOL+ and CH+ buttons on the HDTV/DVD's front panel at the same time for at least 8 seconds. You will receive an on-screen message that Parental Controls have been unlocked once you've successfully reset the password.*

Using the TV's Features

The V-Chip Rating Screen

The following is an example of where items are located within the Rating Limit screen.



Blocking Age-Based Ratings

You can automatically block all program ratings above a specified age-based rating level. To block programs with higher ratings:

1. Press the up or down arrow button to scroll to the rating corresponding with the lowest rating you do not want the child to watch.
2. Press the OK button to toggle between *View* and *Block*. The status for the rating listed to the left and all higher ratings automatically changes to *Block* (and 🔒).
3. Use the up/down arrow buttons to highlight *Go back* and press OK.
4. Select *Lock Parental Controls* from the *Parental Control* menu for rating limits to take effect.

Hierarchy of Age-Based Ratings	
TV-MA	Mature Audience Only
TV-14	Parents Strongly Cautioned
TV-PG	Parental Guidance Suggested
TV-G	General Audience
TV-Y7	Directed to Children 7 years and older
TV-Y	All Children

Viewing Age-Based Ratings

After you block age-based ratings, you can change some of the ratings back to *View*.

1. Use the up/down arrows to select the rating with a status of *Block*.
2. Press OK to select *View*.

Content Themes	
D	Sexually explicit dialogue
L	Adult language
S	Sexual situations
V	Violence
FV	Fantasy Violence


Tip

To change all V-Chip movie or TV ratings to View, press the 0 number button.

Blocking Specific Content Themes

You can block programs based on their content. (Content is represented by the D, L, S, V and FV on your screen.) When you block a content theme for a particular rating, you automatically block that content theme for higher rated programs as well.


To block program content:




1. Determine the content themes you want to block.
2. Press the down arrow button to scroll to the rating whose content theme you want to change.
3. Press the right arrow button to move the yellow highlight to a particular content theme status.
4. Press the OK button to change its status to .

Notes: Broadcasters are not required to provide content themes or age-based ratings.

You must remember to lock Parental Controls for rating limits to take effect.

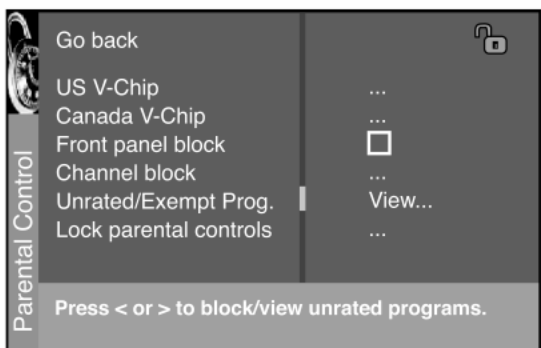
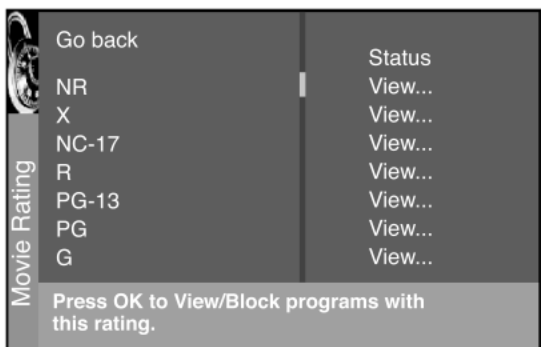
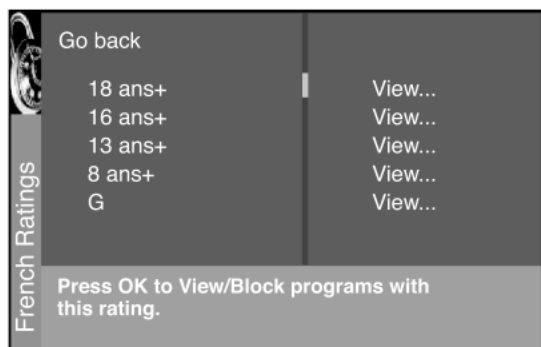
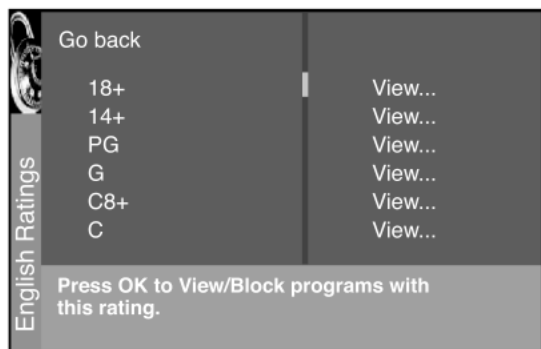
Viewing Specific Content Themes

If you block specific content themes, you have the option of going back and changing some of the them back to  View:

1. Determine the content themes you want to change to  View.
2. Press the down arrow button to scroll to the rating whose content theme you want to change, such as  under language (L) corresponding with TV-14.
3. Press the right arrow button to move the yellow highlight to a particular content theme status.
4. Press the OK button to change the status back to . Your child would then be able to watch programs with the TV-14 adult language content, but not programs with TV-MA language content.

Note: Only the content theme status corresponding to TV-14 (L) language changes to (V) View. Higher rated content themes, such as that for TV-MA language, do not change.

Using the TV's Features



Blocking Canadian V-Chip Ratings

If you receive Canadian programs you can block Canadian English and French V-Chip by ratings only. When you block a particular rating, you automatically block the higher rated programs as well.

To block Canadian English and French program ratings:

1. Select *Canada V-Chip* from the *Parental Control* menu.
2. Highlight *English ratings* or *French ratings* and press OK.
3. Determine the rating you want to block.
4. Press the down arrow button to scroll to the rating you want to change.
5. Press the OK button to change its status to block (the lock icon appears and all ratings above the one you selected change to lock).

V-Chip Movie Rating Limit

Set movie rating limits by blocking movies rated above a specified level.

To access the Movie Rating Limit menu:

1. Press MENU on the remote control (the HDTV/DVD's *MAIN MENU* appears).
2. Select *Parental Control*.
3. Select *US V-Chip*.
4. Select *V-Chip movie rating*.

Blocking Movie Ratings

Once you are in the Movie Ratings menu, follow the same steps described for blocking TV ratings.

Front Panel Block

Selecting this option lets you block (disable) or unblock (enable) the HDTV/DVD's front panel. The remote still tunes to any channel. When using this as a Parental Control method, remove access to any remote that is capable of operating the television while you have the front panel blocked.

Don't forget to lock parental controls after you change the status. If you don't, the front panel block will not take effect.

Channel Block

The *Channel Block* option allows you to block (disable) or unblock (enable) analog channel as well as digital channels. From the analog tuner option, choose the individual channels you want to block from the channel list. From the digital tuner option, choose to block all digital channels.

Blocking Unrated/Exempt Programs

The *Unrated/Exempt Prog.* option lets you decide if programs that the V-Chip recognizes as unrated can be viewed. Unrated TV programs may include news, sports, political, religious, local and weather programs, emergency bulletins, public announcements, and programs without ratings. The Exempt option applies to both USA and Canadian unrated programs and Canadian programs rated *E*.

View All unrated programs are available.

Block All unrated programs are not available.

Note: You must remember to activate V-Chip for rating limits to take effect.

Press the down arrow to highlight *Unrated/Exempt Prog.* Then press the right arrow to toggle between *View* and *Block*.

Lock/Unlock Parental Controls

Selecting this option lets you lock and unlock parental controls settings using a password.

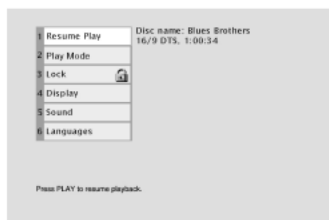
If you do not lock parental controls, none of the settings for V-Chip, Channel Block, or Front Panel Block will take effect.

If you forget your password, press the MENU button, then select *Parental Control* (the password entry screen appears). Simultaneously press and hold CH+ and VOL+ on the front panel for 8 seconds. Parental Controls unlock and the *Parental Control* menu appears. You can enter a new password by locking the Parental Controls again.

Chapter 5: Using the DVD Menu

The DVD's Menu System

The DVD's menu system is not the same as the disc menu or the Info Display. The DVD's main menu comes up when there is no disc playing. If you're playing a disc, press STOP on the remote control to stop playback and bring up the DVD's main menu.



The Play/Resume Play Option

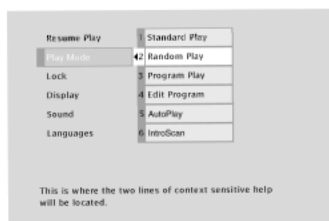
To get to the DVD's main menu, press STOP on the remote control. The first item in the main menu is the *Play/Resume Play* option. If there isn't a disc in the HDTV/DVD, the option reads *Play* with the prompt *Insert Disc* to the right. If there is a disc in the HDTV/DVD and it was previously playing, the option reads *Resume Play* and the name of the disc is displayed on the right.

Any time you stop playback, you will be returned to the DVD's main menu, and the *Play* option will read *Resume Play*. To resume play, highlight the option and press OK, or press the PLAY button on the remote.

The Play Mode Menu

The DVD's *Play Mode* menu lets you choose different ways to play the disc. To see *Play Mode* menu options, a disc must be in the HDTV/DVD.

1. If the disc is playing, press STOP (the DVD's main menu appears).
2. Highlight the *Play Mode* menu option.
3. Press OK. The *Play Mode* menu items appear.
4. Highlight the desired option and press OK. *Program Play* will not work unless you have created a program list.



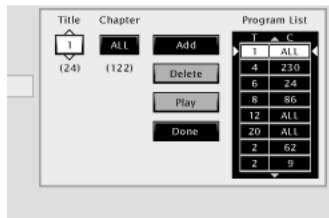
Selecting a Play Mode

The first three options in the *Play Mode* menu determine in what order the titles or tracks will play on a disc.

Standard Play: plays the disc's titles and chapters in their default order (i.e., chapter 1 of Title 1 plays first, then chapter 2 of Title 1, etc.)

Random Play: plays the chapters of each title in random order.

Program Play: Plays the chapters on the disc in the order you have programmed (you must select *Edit Program* and set up the order in which you want the tracks on the disc to play).

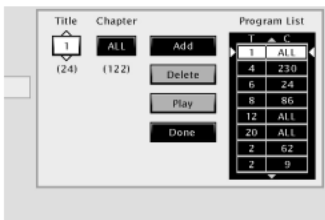


How to Create a Program

To use the *Program Play* option, you must create a program list to set the order in which you want titles and chapters on a DVD video disc to play. To create a program list for an Audio CD or mp3 go to Chapter 7.

Creating a Program List for a DVD Video Disc

1. If the disc is playing, press STOP to stop playback (the DVD's main menu appears).
2. Highlight *Play Mode* and press OK (the *Play Mode* menu appears).
3. Highlight *Edit Program* and press OK (the *Edit Program* screen appears).
4. The *Title* box is highlighted. Use the up/down arrows or the number buttons on the remote to enter the title you want to play first. The title number you entered appears in the *Title* box. The number of chapters available appears under the *Chapter* box.
5. Highlight the *Chapter* box and use the up/down arrows or the number buttons on the remote to enter the chapter you want to play first and press OK. The highlight jumps to the *Add* button.
6. Press OK to add that chapter to the *Program List*. The highlight jumps back to the *Title* box so you can add more titles and/or chapters. Make sure the *Title* box is highlighted and enter your next title and/or chapter.
7. Continue adding titles/chapters as explained in steps 4-6 until your program is complete. To play the program, highlight *Play* and press OK. To save the program to play later, highlight *Done* and press OK. The program will be erased when you remove the disc from the HDTV/DVD.



Editing a Program – Deleting Chapters

To delete chapters from the playlist:

1. If the disc is playing, press STOP to stop playback (the DVD's main menu appears).
2. Highlight *Play Mode* and press OK (the *Play Mode* menu appears).
3. Highlight *Edit Program* and press OK (the *Edit Program* screen appears).
4. Highlight the item in the playlist you want to delete.
5. Highlight *Delete*, and press OK.
6. When you're finished rearranging the playlist, highlight *Done* and press OK.

Editing a Program – Inserting Chapters

To insert chapters into the playlist:

1. If the disc is playing, press STOP to stop playback (the DVD's main menu appears).
2. Highlight *Play Mode* and press OK (the *Play Mode* menu appears).
3. Highlight *Edit Program* and press OK (the *Edit Program* screen appears).
4. Use the left/right arrow keys to move the highlight to the program list. Use the up/down arrow keys to mark the spot in the playlist where you want to insert a chapter (the inserted chapter will be placed *before* the highlighted chapter).
5. Highlight the *Chapter* box and use the up/down arrows or the number buttons on the remote to enter the chapter you want to play first.
6. Once you enter the number, the *Insert* box is highlighted. Press OK to insert the chapter in the playlist.
7. When you're finished rearranging the playlist, highlight *Done* and press OK.

AutoPlay

You can set the AutoPlay option to play your disc automatically after you close the disc tray.

1. From the DVD's main menu (in DVD mode, no disc playing) highlight the *Play Mode* option and press OK.
2. The Play Mode selections appear. Highlight the AutoPlay option and press OK to toggle the option on/off.
3. Press the left arrow button to return to the previous menu or press GO BACK to return to the main menu.

Using the DVD Menu

IntroScan

IntroScan plays the first 10 seconds of each track on an Audio CD or mp3 file. IntroScan will not repeat automatically. Once it has completed, the system will stop the disc and return to the main menu.

To use IntroScan when playing a CD or mp3:

1. Highlight *Play Mode* and press OK.
2. Highlight *IntroScan* and press OK to begin the function.
3. Press STOP to stop the IntroScan function.

The Lock Menu

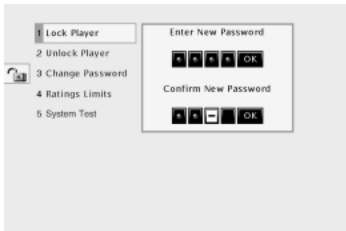
The padlock icon is displayed on the DVD's main menu which shows whether your DVD is locked or unlocked.



Locked: A password is needed in order to play discs that aren't included in the rating limits you have set. When the DVD is locked, no one can access the *Lock* Menu items without entering the password.



Unlocked: A password isn't required to play discs.



Locking Your DVD

1. If the disc is playing, press STOP (the DVD's main menu appears).
2. Highlight *Lock* and press OK (the *Lock* menu items appear).
3. Highlight *Lock Player* and press OK. The *Enter New Password* screen appears.
4. Press the number buttons on the remote to enter the password you want to use (similar to entering your PIN when you use a bank machine).
5. After you've entered the last number in the password, press OK. *Confirm Password* appears.
6. Enter the numbers you entered the first time and press OK when you're finished.
7. Press the left arrow to return to the main menu.

Unlocking Your DVD

1. If the disc is playing, press STOP (the DVD's main menu appears).
2. Highlight *Lock* and press OK.
3. The *Enter Password* box appears. Enter your password (the *Lock* menu options appear).
4. Highlight *Unlock Player* and press OK. The locked icon changes to unlocked.

If you forget your password, simultaneously press and hold OPEN/CLOSE and the STOP on the HDTV/DVD's front panel for 8 seconds. Enter a new password via the *Lock* menu.

Changing Your Password

The DVD must be locked to change the password.

1. If the disc is playing, press STOP (the DVD's main menu appears).
2. Highlight *Lock* and press OK. *Enter Password* appears on the screen. Enter your password.
3. Highlight *Change Password* and press OK. *Enter New Password* appears.
4. Use the number buttons on the remote to enter the new password you want to use and press OK. *Confirm Password* appears.
5. Press the number buttons to enter the password again and press OK when you're finished.

Setting the Ratings Limits

The Ratings Limits feature is a rating limit system, sort of like movie ratings. It works with DVD discs that have been assigned a rating. This helps you control the types of DVDs that your family watches.

Note: When in DVD mode, the HDTV/DVD alerts you when you try to play a movie with a rating that exceeds the limit you've set. Some discs include a rating override feature. When you play a disc with this feature, the message **Override Limit or Cancel Selection** appears on the screen. If you choose to override the rating limit, you will need to enter your password to begin playback.

Changing to a Different Country's Rating System

Some countries use different rating systems. The default for this HDTV/DVD is the United States. You can change to a different country's rating system through the *Lock* menu.

1. If the disc is playing, press STOP (the DVD's main menu is displayed).
2. From the main menu, highlight the *Lock* option and press OK (the *Lock* menu appears).
3. Highlight *Ratings Limits* and press OK (the *Ratings Limits* menu appears).
4. Highlight *Country* and press OK (a list of countries appears).
5. Highlight the country you want to change to and press OK (the country you selected appears next to the *Country* menu).
6. Press the left arrow button to return to the main menu.



Rated Titles

The *Rated Titles* option lets you determine how your DVD will react to discs that contain movies that are rated (in the U.S.A., the Motion Pictures Association of America rates movies as G, PG, PG-13, etc.). You decide which ratings require a password and which ones don't. This system ranks the ratings 1 through 8 in order to accommodate different countries' ratings systems (1 is considered a movie title with the least offensive material). In order for the Rating Level feature to work, the disc must be encoded with rating information. If the author of the disc did not encode rating information, then this feature will not work for that disc. When in DVD mode, the HDTV/DVD must be locked in order for it to enforce the settings in the *Ratings Limits* part of the *Lock* menu.

1. From the *Lock* menu, highlight *Ratings Limits* and press OK (the *Ratings Limits* menu is displayed).
2. Highlight *Rated Titles* and press OK (the 8-level rating limits list appears).
3. To change the rating limit, press the up or down arrow button.
 - The ratings that don't require a password (free access) appear under the bar, in the green part of the block.
 - The ratings that require a password appear above the bar, in the red part of the block.
4. When you have moved the bar to the desired setting, press OK. You're returned to the *Rated Titles* screen and the setting appears to the right of the *Rated Titles* option. For example, if you set 3 as the highest rating for Free Access (green), then the *Rated Titles* selection appears as 3 (that's the DVD's number for PG in the 8-level system) for the movie studio's rating. This means when the DVD is locked, it will require you to enter the password to play any discs that are rated higher than 3 (i.e., PG-13 or NC-17).
5. Press the left arrow button to return to the main screen.

Using the DVD Menu



Unrated Titles

Some titles (movies) aren't rated, but may contain material that is unsuitable for children. You decide how you want the *Ratings Limits* feature to handle these discs: free access or password required. To set the *Unrated Titles* option:

1. From the Lock Menu, highlight *Ratings Limits* and press OK.
2. Highlight *Unrated Titles* and press OK. The *Unrated Titles* options appear.
3. Use the up/down arrow buttons to highlight your choice: *Free Access* or *Password Required*. Press OK to select. Then, press the left arrow button to return to the previous screen. The option you chose is displayed next to the *Unrated Titles* option.
4. Press the left arrow button to return to the main menu.

Note: Many special features added to DVDs, such as the director's commentary, are also unrated.

System Test

There are several tests you can run from the System Test menu. If a problem is found, the text will appear in light gray.

1. Highlight *System Test* within the *Lock* menu.
2. Press OK to display the *System Test Results* screen.
3. Press the left arrow button to return to the main menu.

The Display Menu

The *Display* menu contains the settings that affect how disc content looks on your HDTV/DVD.

TV Image

The *TV Image* menu adjusts the way a movie appears on your HDTV/DVD.

1. From the DVD's main menu (in DVD mode, no disc playing), highlight *Display* and press OK (the *Display* options appear).
2. Highlight *TV Image*. Press OK. The *TV Image* options appear.

4 x 3 Letterbox – Choose this setting when receiving a 4:3 image with subtitles ON. You'll see the entire frame of the movie, but it will take up a smaller portion of the screen vertically to accommodate subtitles. The movie might appear with black bars at the top and bottom of the screen.

4 x 3 Standard – Choose this setting when receiving a 4:3 image and you want the on-screen appearance of the video to be a centered picture with black side panels (blank area) on the right and left sides. Most discs produced in a widescreen format can't be cropped in this fashion. This means the black bars appear at the top and bottom of the screen.

16 x 9 Standard – Choose this setting to view 16:9 formatted DVD's. Most DVD's will force the viewing to this mode. Also choose this if you want a 4:3 image to adjust horizontally to fill the 16:9 screen. Black side panels won't be added, and the image is vertically unaltered.

On-Screen Displays

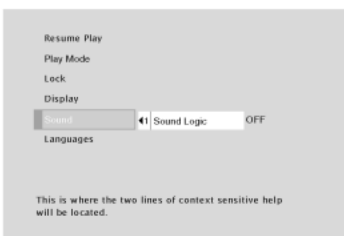
This feature lets you select whether you want certain on-screen displays to appear on the screen. It contains three choices with check boxes next to them:

- **Information Display** – When turned on, displays time transport information when you're fast forwarding or reversing playback.
- **Angle Indicator** – When turned on, displays camera angle icon if more than one camera angle is available.
- **Scene Again™ Text** – When turned on, displays subtitles when you use the Scene Again™ feature.

The default is to show all on-screen displays. To turn one of the options on or off, highlight an option and press OK. This toggles the option on or off.

The Sound Menu

The *Sound* menu lets you select different sound settings to match the equipment you have connected to your unit.



Sound Logic

The Sound Logic feature compresses the dynamic range (quietest sound to loudest sound) of a disc's soundtrack. For example, action scenes might be very loud, while whispered dialog is quiet. The Sound Logic feature evens out the range of the volume by making loud sounds quieter and soft sounds louder. The Sound Logic option is a toggle, it can be turned on or off. The default setting is off.

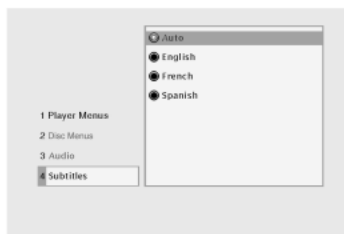
To turn the Sound Logic feature on:

1. From the DVD's main menu, highlight *Sound* and press OK (the *Sound* menu appears).
2. Highlight the *Sound Logic* option and press OK.
3. Press the left arrow button to return to the main menu.

Note: *The performance of the Sound Logic feature varies depending on the type of equipment you have connected to your HDTV/DVD and the audio format of the disc you're playing.*

The Languages Menu

The *Languages* menu enables you to choose different language options for audio, subtitles, Disc Menu items and DVD main menu items. The default for all Language menu items is English.



Changing the Player Menus, Disc Menus, Audio or Subtitles Language Preferences

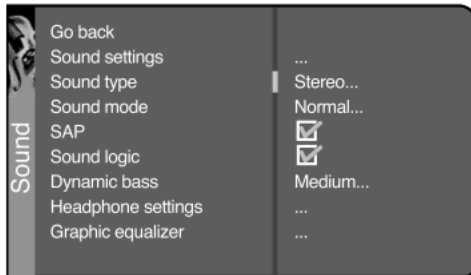
You can choose one of the languages for the text that appears within the on-screen menu system.

1. From the main menu, highlight and select the *Languages* option (the *Languages* menu is displayed).
2. Highlight the language option for the language you want to change and press OK (the language choices are displayed).
3. Highlight the language you want to use and press OK. The menu appears with your selection shown next to the language option.
4. Press the left arrow button or press GO BACK to return to the previous menu.

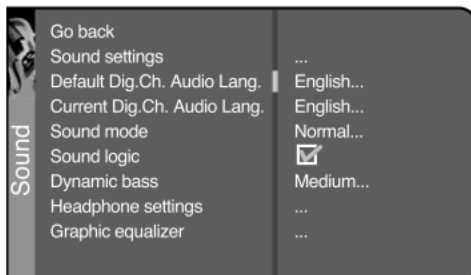
Notes: *If you change the Player Menu Language, the entire DVD's menu system will be displayed in the selected language.*

The option Original in the Audio Language menu is the language in which the audio was originally recorded.

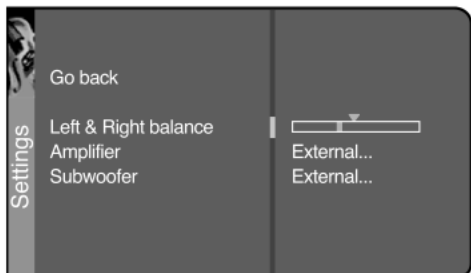
Chapter 6: Using the TV's Menu System



The Sound menu for the regular (analog) tuner and all video inputs



The Sound menu for the digital (ATSC) tuner



Sound Menu

The Sound menu lets you adjust audio output. To access the Sound menu, press MENU on the remote, and then select *Sound* from the main menu.

Depending on the kind of signal you're watching, the Sound menu will have different items available for you to adjust:

- If you're watching the normal antenna input or any of the video inputs, you'll see the Sound menu items shown in the first menu on the left.
- If you're watching the ATSC antenna input, you'll see the Sound menu items shown in the second menu on the left.

This section describes the items available in both kinds of Sound menu.

Sound settings The *Sound settings* submenu contains the following items:

Left & Right balance Use the left or right arrow button to center the bar under the arrow to balance the left and right speakers.

Amplifier Use the left or right arrow button to select *External* (if your HDTV/DVD is using external amplifier only) or *Internal* (if your HDTV/DVD is using the speakers in the HDTV/DVD).

Subwoofer Set the HDTV/DVD's subwoofer to *External*, if the HDTV/DVD is using an external subwoofer; or *None*.

Sound type (available for regular antenna signals and video inputs) Press the right arrow button to scroll through the available audio types, which control the way the sound comes through your speakers. The options available vary according to the input selected.

Mono (available for regular TV viewing only) Plays the sound in mono only. Use this setting when receiving broadcasts with weak stereo signals.

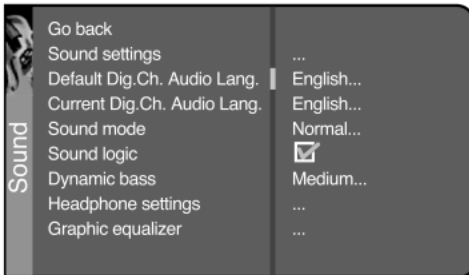
Stereo Splits the incoming stereo audio signal into left and right channels. Most TV programs and recorded materials have stereo audio. The word *Stereo* appears in the channel banner when you tune to a program that is broadcast in stereo.

Automatic (available for regular TV viewing only) Chooses the sound type according to the current signal.

Left and Right (available for audio/video inputs only) Isolates either the left or right channel of the incoming audio.

Default Dig.Ch. Audio Lang. (available for the digital tuner only) Choose the language you prefer for dialog on digital channels. If your preferred language is being broadcast with a program, then the HDTV/DVD will play it. If not, then the HDTV/DVD will play the default audio for the program (usually English in the U.S.). The default digital channel audio language options are *English*, *Spanish*, *German*, *Italian*, *Japanese*, *Chinese*, and *Korean*.

Using the TV's Menu System



The Sound menu for the digital (ATSC) tuner

Current Dig.Ch. Audio Lang. (available for the digital tuner only) Press the right arrow to choose from the audio languages available for the program you're watching. The language you choose becomes your preferred audio language for all channels on the digital tuner until you turn the HDTV/DVD off. If the language you choose here is not being broadcast with a program, then the HDTV/DVD will play the default audio for the program (usually English in the U.S.).

Sound Mode Press the right arrow button to scroll through the available audio modes, which provide special processing through your speakers (depending on the setting you chose as your *Sound type*).

Normal Does not give any special processing, simply provides the mono or stereo sound provided by the signal you're watching.

Wide Available only for mono signals. "Widens" sound from mono broadcasts and mono components connected to your HDTV/DVD for a fuller, more spacious sound.

Magic Available only for stereo signals. Gives a surround effect with more bass.

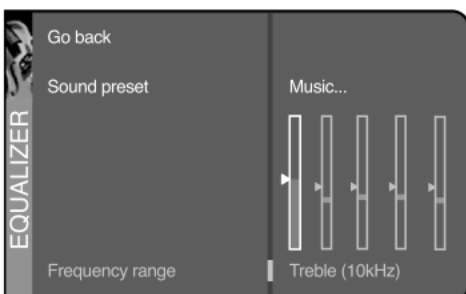
Second Audio Program (SAP) Plays the program's audio in a second language, if one is available. The letters "SAP" appear in the channel banner when you tune to a program that is broadcast with SAP information. SAP audio is broadcast in mono. SAP is also used to broadcast a program's audio with descriptions of the video for the visually impaired.

Note: SAP is only offered on analog channels.

Sound logic Reduces the annoying blasts in volume during commercial breaks, and also amplifies softer sounds in program material. Eliminates the need to constantly adjust the volume.

Dynamic bass Enhances your HDTV/DVD's low-frequency response. The options are *Off*, *Medium* and *High*.

Headphone settings Displays a choice list of available settings you can adjust: *Volume*, *Bass* and *Treble*. The *Headphone sound* option allows you to choose stereo, mono or automatic. These descriptions are the same as for *Sound Type* (see the previous page).



Graphic equalizer Allows you to choose a specific preset through the Sound Preset option. Press the right arrow to cycle through the options: *Standard*, *Movie*, *Voice*, *Music*, *Flat*, *Videogame*, *Video camera* and *Personal*.

The *Frequency range* displays the different treble and bass bands set for each Sound Preset option. You can choose a band and make adjustments. When you make adjustments, the Sound Preset option automatically changes to *Personal*. Press the left or right arrow button to select the frequency (Bass 100Hz, Mid Bass 500Hz, Medium 1.5kHz, Mid Treble 5kHz, Treble 10kHz) you want to adjust. Then use the up or down arrow button to adjust the level.

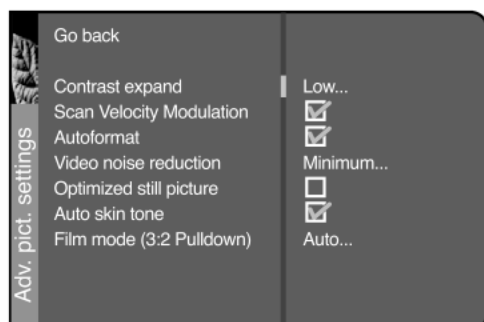
To view the frequency range of another *Sound Preset* option, press the right or left arrow until no band is selected and *Frequency range* is highlighted. Then press the up arrow to highlight *Sound Preset*.

Using the TV's Menu System



Picture Menu

The *Picture* menu contains menus and controls to configure the following video settings: *Advanced picture settings*, *Picture presets*, *Black level*, *Color*, *Contrast*, *Sharpness*, *Color Warmth*, and *Tint*. The *Picture* menu options apply to the video for the main TV and video input selections.



Advanced picture settings

Contrast expand You can adjust the contrast of the picture to suit the light of the room. Press the right arrow button to choose which of the following best describes the lighting in the room: *Low*, *Medium* or *High*.

Scan Velocity Modulation Improves the sharpness of the picture by changing the speed of the cathode-ray tube's electron beam when it transitions between dark and light areas of the screen. Choose to have it on (box checked) or off (box unchecked), depending on your preference.

Autoformat When enabled (box checked) the HDTV/DVD automatically detects the screen format of the incoming signal for analog channels and inputs. The Autoformat feature is not available for digital channels.

Video noise reduction Reduce picture "static" or any type of interference. This feature is especially useful for providing a clearer picture in weak analog signal conditions. Press the right arrow button to choose between:

Off for no noise reduction; *Minimum* for a softer, smoother picture that retains picture sharpness and detail; *Medium* for a slightly softer picture than the *Minimum* setting; *Maximum* for an even softer, smoother picture than the other settings (the picture detail is somewhat decreased).

Optimized still picture When enabled (box checked), enhances the picture specifically for still frames (for example, if you're watching a slideshow on your HDTV, or if you've paused a frame of a DVD).

Auto Skin Tone When enabled (box checked), minimizes the flesh tone variations of the HDTV/DVD picture.

Film mode (3:2 Pulldown) Automatically detects video sources that were originally recorded on film (like most movies) and subsequently converted to a different format (for TV broadcast, for example). Film mode processes the converted signal so that it looks as close as possible to the original. Another name for this process is reverse 3:2 pulldown.

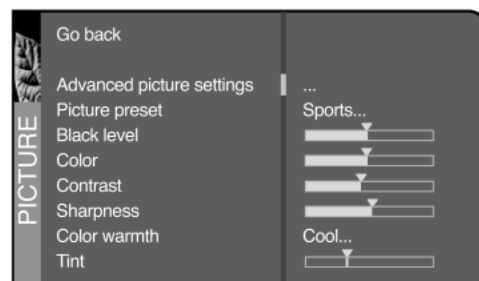
Note: *Film mode is not available for digital channels.*

Advanced (recommended) enables the feature only when the HDTV/DVD detects that movie playback quality could be improved. *Advanced* is the default setting.

The *On* setting should only be used in rare circumstances when the HDTV/DVD is used solely with film-based sources (like DVDs on a non-progressive-scan player).

The *Off* setting turns off film mode upconversion. Try using this setting if you think the reverse 3:2 pulldown is causing distortions in your picture.

Note: *Autoformat and Video noise reduction are available for the CMP1 input only if the signal is 480i.*



Picture preset Displays a choice list that lets you select one of the preset picture settings: *Vibrant*, *Cinematic*, *Natural*, *Sports*, *Videogame*, *Video Camera* or *Personal*. Choose the setting that is best for your viewing environment. You can set a different picture preset for each input (including one for your regular TV channels).

Black Level Adjusts the brightness of the picture.

Color Adjusts the richness of the color.

Contrast Adjusts the difference between the light and dark areas of the picture.

Sharpness Adjusts the crispness of the edges in the picture.

Note: You can adjust sharpness for each channel and input. This is useful if the signal appears fuzzy.

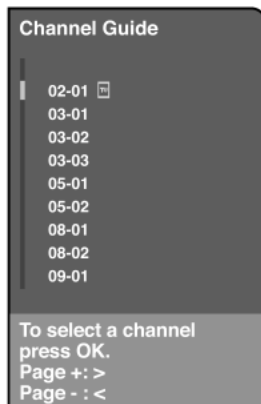
Color Warmth Displays a choice list that lets you set one of three automatic color adjustments: *Cool* for a more blue palette of picture colors; *Normal*; or *Warm* for a more red palette of picture colors. The warm setting corresponds to the NTSC standard of 6500 K.

Tint Adjusts the balance between the red and green levels.

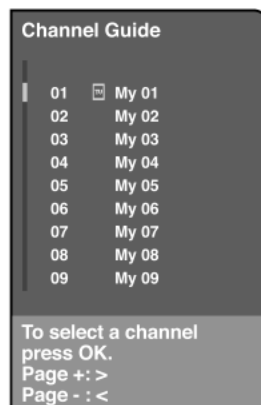
When you change any of these picture settings, the *Picture Preset* changes to *Personal*. Use the left or right arrow button to make adjustments. To return to the *Picture* menu, press the up or down arrow button.

Channel Guide Menu

The Channel Guide lets you view the entire list of channel numbers and labels for the tuner you're on. Press the GUIDE button to bring up the Channel Guide menu. There are two different kinds of channel guides—the one you see depends on the tuner you're on.



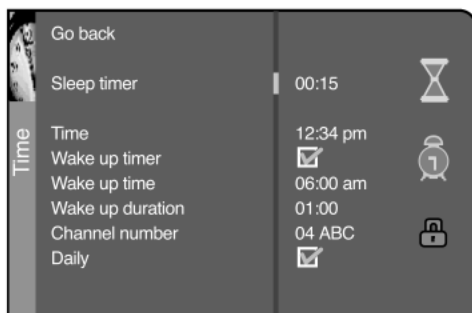
The Channel Guide for the digital tuner, showing channels and subchannels.



The Channel Guide for the analog tuner.

Channels on the digital tuner (channel 03 in the example above, for example) can have subchannels (channels 03-01 and 03-02). Each available subchannel is listed separately in the digital tuner channel guide (see page 29 for more information on digital channels).

Use the up or down arrow button in the channel guide to scroll through the list. Use the left and right arrow buttons to move through the guide by "page" (each full screen of channels in the guide is a "page"). Press OK to select and tune to the highlighted channel or subchannel. Press the CLEAR button to remove the Channel Guide from the screen without changing channels.



Time Menu

Sleep Timer Lets you set the HDTV/DVD to turn off after a given amount of time.

Time Lets you enter the current time. If it is eight o'clock, for example, you must first enter the number zero, then number eight. Use the OK button to choose between AM and PM.

Using the TV's Menu System

Wake up timer Lets you set the HDTV/DVD to turn itself on. When you turn on Wake up timer, the following options appear:

Wake up time Lets you set the time you want the HDTV/DVD to turn itself on.

Wake up duration Lets you set how long you want the HDTV/DVD to stay on when it turns on.

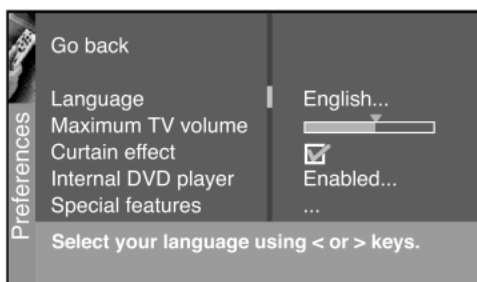
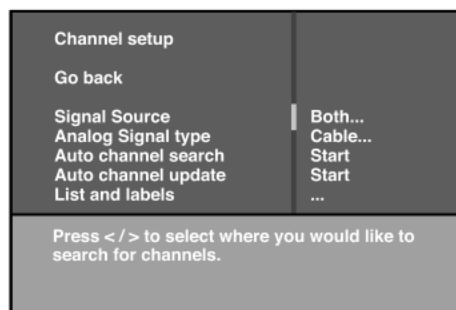
Channel number Lets you select a specific channel the HDTV/DVD tunes to when the wake up timer is set. To change from digital to analog channels (or vice versa), highlight *Channel number* and press the ANTENNA button on your remote.

Daily Lets you choose if you want the wake up timer to turn on daily.

Note: The Wake up timer is available only when the time has been set.

Parental Control Menu

The Parental Control Menu was explained in Chapter 3. Go to page 31 for more information.



Setup Menu

The Setup menu lets you configure the HDTV/DVD to fit its surroundings and your preferences. To access the *Setup* menu, press MENU on the remote, and then select *Setup* from the main menu.

Channel setup

Signal source Allows you to set which tuner you want to search for channels. You can select *Analog tuner* or *Digital tuner* to search that tuner separately, or you can select *Both* to search both tuners.

Analog Signal Type (available for the analog tuner only) The analog signal type was set during the initial setup. If you change how you receive broadcasts through the antenna input, you must change the *Signal type* setting. Choose *Cable* if you are using cable or a cable box for TV signals. Choose *UHF/VHF Antenna* if you are using an off-air antenna for analog TV signals.

Auto channel search Searches for channels the current tuner (analog or digital) is receiving. Go to page 14 for more information.

Auto channel update Searches for any new channels that are not in your channel list for the current tuner and adds them to that list.

List and labels Edit the channels in the list or choose labels for each channel. Go to page 15 for more information.

Preferences

Language Allows you select your preferred language for the menus: *English*, *Español* or *Français*.

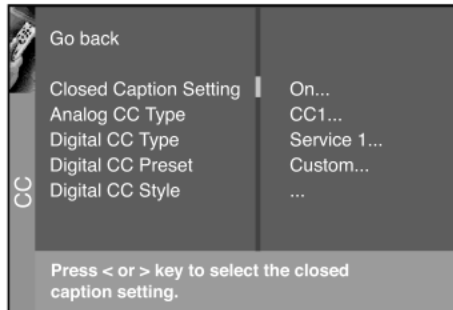
Maximum TV volume Allows you to set how high volume turns up when you press the VOL+ button. Highlight *Maximum volume*, then press and hold OK to hear the maximum volume. Make sure the volume has not been muted or turned down all the way.

Curtain effect Reveals the picture by "opening" it from the middle of the screen when the HDTV/DVD is switched on. Hides the picture by "closing" it from the sides when the HDTV/DVD is switched off.

Short-term vs. Long-term Power Outages

The Auto channel and Auto volume settings don't take effect after short-term power outages (usually less than two to three minutes). The HDTV/DVD will turn back on at the same volume and channel as before the power outage.

The Auto channel and Auto volume settings take effect after power outages of several minutes or more.



Internal DVD player The internal DVD player can be enabled or disabled. If, for example, you're using the HDTV/DVD with an external DVD player, and you've programmed the remote to work with that player, then you can disable the internal DVD player so that it isn't activated by the buttons on your remote. Then you can use your HDTV/DVD remote with your external DVD player without the internal DVD player interfering. To enable or disable the internal DVD player, highlight *Internal DVD player*, then press the OK button for five seconds.

Special features The *Auto on* setting switches your HDTV/DVD on after a power outage; *Auto channel* tunes the HDTV/DVD to the channel you specify as the *Initial channel* when *Auto on* is enabled; *Auto volume* tunes the HDTV/DVD to the volume you set in *Initial volume* when *Auto on* is enabled.

Closed Caption Many programs are encoded with closed-captioning information, which lets you display the audio portion of a program as text on the HDTV/DVD screen. Some programs on digital channels offer digital captioning information, which gives you more options for the way the captioning is displayed on the screen.

Closed captioning is not available on all channels at all times—only for specific programs encoded with closed-captioning information. When a program is closed captioned, *CC* is displayed in the channel banner (see Chapter 3 for more information about the channel banner).

The closed caption options are:

Closed Caption Setting Lets you choose the way both analog and digital closed captioning information appears on the screen. The *Closed caption setting* does not effect the DVI-HDTV input.

Off No captioning information displayed.

On always Captioning information shown always, when available.

On when mute Displays captioning information, when available, whenever the HDTV/DVD's sound is muted by pressing the MUTE button. The captioning information is not displayed when the sound is not muted.

Analog CC Type Lets you choose your preferred type of analog closed captions.

CC1 and *Text 1* are the primary caption and text services. The captioning or text is displayed in the same language as the program's dialog.

CC3 and *Text 3* serve as the preferred data channels. The captioning or text is often a secondary language translation, simplified English, or displayed at a slower rate.

CC2 and *CC4* and *Text 2* and *Text 4* are rarely available and broadcasters use them only in special conditions, such as when *CC1* and *CC3* are not available, or *Text1* and *Text3* are not available.

Notes: The **CC** options display information at any position on the screen. These options overlay the text on top of the picture as it is received.

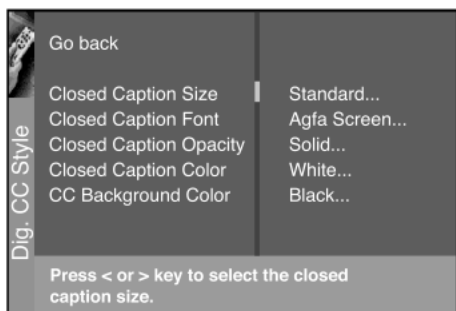
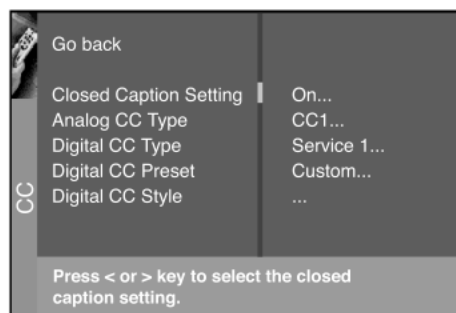
The **Text** options display information at one particular position (such as the bottom third) of the screen. You cannot see the picture underneath the text.

Digital CC Type Lets you select a closed caption service mode (1-6) for digital channels.

Service 1 and *Service 2* are the primary and secondary languages, respectively.

Service 3 and *Service 4, 5, 6* are additional caption sources that may be available.

Using the TV's Menu System



Digital CC Preset Lets you choose the way the digital closed captioning appears on the screen.

Default Uses the settings sent by the broadcaster for the size, color, and font used for digital closed captioning, as well as for the color and opacity of the captioning's background.

Custom Lets you customize the size, color, and font used for digital closed captioning, as well as for the color and opacity of the captioning's background (see the *Digital CC Style* menu item below).

Digital CC Style If you set the *Digital CC Preset* option to *Custom*, you can customize the following digital closed-captioning settings:

Closed caption size Lets you set the size of the digital closed-caption text. You can choose *Standard*, *Large*, or *Small*.

Closed caption font Lets you select a character design for the digital closed-caption text. A font is a complete assortment of letters, numbers, punctuation marks, etc. of a given design. You can choose from these fonts: Monotype®, iType®, Agfa Screen™, Ashley®, Floridian™, and Plate Gothic™.

Closed caption opacity Lets you set the appearance of the space behind the digital closed-caption text: *Solid*, *Transparent*, *Translucent*, or *Flashing*.

Closed caption color Lets you choose the color of the digital closed-caption text: *White*, *Black*, *Red*, *Green*, *Blue*, *Yellow*, *Magenta*, or *Cyan*.

CC background color Lets you choose the color of the area of the screen behind the digital closed-caption text: *White*, *Black*, *Red*, *Green*, *Blue*, *Yellow*, *Magenta*, or *Cyan*.

Note: These captioning style options only have an effect on true digital closed captions.

Not all captioning on digital channels is digital captioning—it depends on what the broadcaster is sending. If the closed captioning for a program is not digital, the *Digital CC Style* settings will not have an effect.

Autotuning Displays a choice list that lets you set up the HDTV/DVD to automatically tune to the correct input channel when you press a component button (VCR, DVD, AUX/HD or SAT/CABLE) on the remote. Go to Chapter 3 for details about the Autotuning feature.

Convergence The *Auto convergence* feature automatically adjusts the HDTV/DVD's tubes (this may take several minutes, after which you can make fine adjustments to the convergence settings); *Red convergence* displays the Red convergence screen, allowing you to use the arrow buttons to align the red and green images; *Blue convergence* displays the Blue convergence screen, allowing you to use the arrow buttons to align the blue and green images.

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Chapter 7: Information Displays

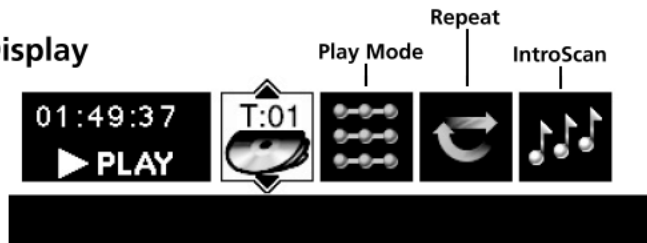
Using the Info Display

Your HDTV/DVD gives you many options when playing different types of discs. You can access these features through the on-screen Info Display.

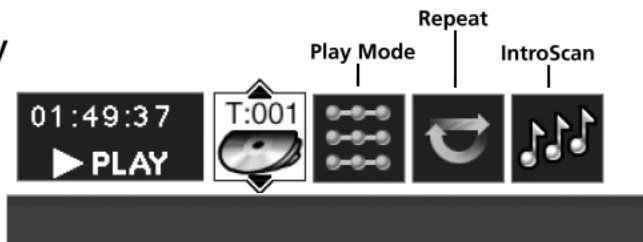
To access the Info Display while a disc is playing, press INFO on the remote. The Info Display appears across the top of the screen. Each of the playback features is represented by an icon. To access a feature, use the arrow buttons on the remote to highlight the icon. Each feature that can be accessed from the On-Screen Info Display is described on the following pages. To clear the Info Display from the screen, press INFO on the remote control.

Note: The DVD Info Display is described on page 25.

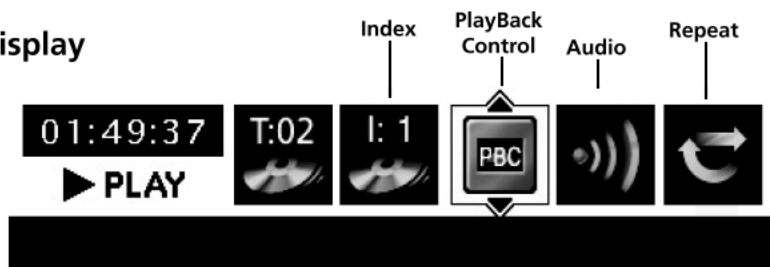
Audio CD Info Display



mp3 Info Display



Video CD Info Display



01:49:37

Using the Time Display

The Clock part of the Info Display shows the current disc time. To see the current disc time:

1. Press INFO on the remote (the Info Display appears).
2. Highlight the Clock icon. Press OK. The amount of time the track has played appears in the time window.
3. Press INFO to clear the screen.



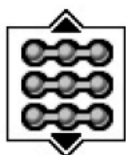
Selecting a Specific Track

1. Press INFO on the remote.
2. Highlight the Track icon.
3. Use the number buttons on the remote to enter the track number you want to play, or use the up/down arrow buttons to scroll through the track numbers. You may need to press the OK button on the remote after you enter a single digit track number.



Selecting a Specific Index (Available on Video CDs only)

1. Press INFO on the remote.
2. Highlight the *Index* icon from the Info Display.
3. Use the number(s) on the remote to enter the index number you want to play, or use the up/down arrows to scroll through the index numbers. When a new index number is entered, that index will begin playing.



Selecting a Play Mode (Available on Audio CDs and mp3s only)

The Play Mode feature lets you set up the order in which you want the tracks on the disc to play. There are three options:

Standard: the tracks play in the order listed on the CD (starting with track 1). mp3 files are listed in the order they were recorded.

Random: the tracks on the disc play in random order.

Program: the tracks on the disc play in the order you've programmed. You must first create a program list in the *Play* menu of the DVD's main menu.

Switching between Standard and Random Play

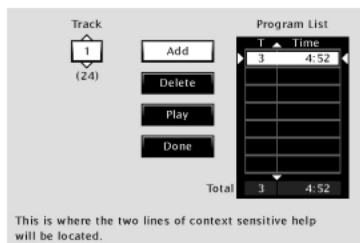
Standard (the order listed on the disc) is the default setting for the DVD mode. To change the default setting:

1. Press INFO on the remote while a disc is playing. The Info Display appears.
2. Highlight the Play Mode icon. The current play mode appears in the text box underneath the icons. Press the up/down arrows to scroll through the choices until *Random* appears in the text box. The tracks on the disc will now play in random order.

Note: *The HDTV/DVD defaults to Standard playback whenever you put a new disc into your HDTV/DVD.*

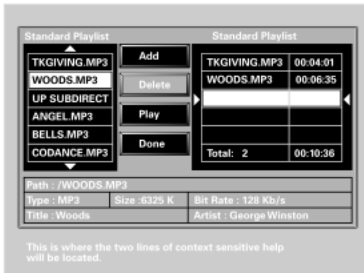
Using the Program Play Feature

To use the Program Play feature, you must enter the order in which you want the tracks on the CD or mp3 to play by creating a program. This is done from the DVD's main menu.



To edit a CD:

1. If the disc is playing, press STOP to stop playback (the DVD's main menu appears).
2. Highlight *Play Mode* and press OK (the *Play Mode* menu appears).
3. Highlight *Edit Program* and press OK (the *Edit Program* screen appears).
4. The *Track* box is highlighted. Use the numbers on the remote to enter the track you want to play first. The track number you entered appears in the *Track* box and the cursor highlights *Add*.
5. Press OK to add that track to the *Program List*. The cursor jumps to the next spot in the *Program List* section. Make sure the *Track* box is highlighted and enter your next track.
6. Continue adding tracks as explained in steps 4-5 until your program is complete. You can play your program by highlighting *Play* and pressing OK, or you can save the program by highlighting *Done* and pressing OK. If you save the program, you can select it from the Info Display. The program will be erased when you remove the disc or the HDTV/DVD is turned off.



To edit an mp3 disc:

1. If the disc is playing, press STOP to stop playback (the DVD's main menu appears).
2. Highlight *Play Mode* and press OK (the *Play Mode* menu appears).
3. Highlight *Edit Program* and press OK (the *Edit Program* screen appears).
4. The *Standard Playlist* box is highlighted. Use the up/down arrow buttons on the remote to enter the track you want to play first.
5. Highlight *Add* to add that track to the *Program List* and press OK.
6. Continue adding tracks as explained in steps 4-5 until your program is complete. You can play your program by highlighting *Play* and pressing OK, or you can save the program by highlighting *Done* and pressing OK. If you save the program, you can select it from the Info Display. The program will be erased when you remove the disc or the HDTV/DVD is turned off.

Editing a Playlist

1. If the disc is playing, press STOP to stop playback. The DVD's main menu appears.
2. Highlight *Play Mode* and press OK (the *Play Mode* menu appears).
3. Highlight *Edit Program* and press OK (the *Edit Program* screen appears).
4. Highlight the item in the playlist you want to delete.
5. Highlight *Delete*, and press OK.
6. When you've rearranged the playlist and/or deleted all the tracks necessary, press OK.



Using the Repeat Feature

The default mode for the Repeat feature is Off. There are three Repeat options for Audio CDs:

- Disc – repeats the disc that is playing
- Track – repeats the track that is playing
- A•B – Set the beginning (point A) and the end (point B) to make this part of the CD play repeatedly.

To Use Repeat:

1. While a disc is playing, press INFO on the remote to bring up the Info Display.
2. Highlight the *Repeat* icon. The text in the text box below the icons will read *Repeat Mode: Off*.
3. Press the up/down arrows to scroll through the *Repeat* options until the option you want is displayed in the text box.
4. Press OK. The selected repeat option will loop repeatedly until you turn Repeat off. Repeat is turned off by completing steps 1 through 3 above, and selecting the *Off* option.

Information Displays

A•B Repeat (Available on Audio CDs only)

A•B Repeat lets you define a specific segment on the disc that you want to repeat:

1. Find the spot on the disc that is a few seconds **before** the beginning of the part you want to repeat (this gives you time to access the Info Display and the Repeat feature).
2. Press INFO on the remote and select the *Repeat* icon from the Info Display.
3. Press the up/down arrow buttons until the A•B Repeat option is shown in the text box underneath the icons. The text box reads *Repeat Mode: A-B Press OK to Set A Point*.
4. At the beginning of the part you want to repeat, press OK to set the A point.
5. When you get to the part of the disc that you want to be the end of the repeated segment (the B point), press OK. The segment will repeat until you turn Repeat off.
6. To make the Info Display disappear from the screen, press the INFO button on the remote.

How to Cancel Repeat

There are three ways to cancel Repeat:

- Press STOP twice.
- Go to the *Repeat* icon in the Info Display and select *Off*.
- Eject the disc.

PlayBack Control (Available on Video CDs only)

This function lets you make interactive selection of some scenes. Additionally, high resolution scenes can be viewed if they are included on the disc. Highlight the PBC icon and use the up and down arrow buttons on your remote to scroll through the options available on the disc.

Changing the Audio Channel Output (Available on Video CDs only)

If you are playing a stereo Video CD, you can change the channel output.

1. Press INFO on the remote to bring up the Info Display.
2. Highlight the *Audio Channel* icon on the Info Display.
3. The audio channel choices appear in the text box. Use the up/down arrow keys to scroll through the choices: *Stereo*, *Left*, *Right* or *Mono*. Whatever choice is displayed becomes the active choice.

Using IntroScan (Available on Audio CDs and mp3s only)

IntroScan plays the first ten seconds of each track on the CD. To use IntroScan:

1. Press INFO on the remote (the Info Display appears).
2. Highlight the *IntroScan* icon. Press OK. The first ten seconds of each track will play.
 - After IntroScan goes through all of the tracks, it stops.
 - If you want to stop IntroScan while it's in progress, press PLAY. The current track starts playing in its entirety.
 - You can also access IntroScan from the *Play Mode* menu in the DVD's main menu.

Troubleshooting

Most problems you encounter with your HDTV/DVD can be corrected by consulting the following troubleshooting list.

Note for U.S. customers: *If you prefer, we can provide you with the name of an Authorized Service Representative who will visit your home for a fee to install your electronic entertainment system and to instruct you in its operation.*

DVD Problems

Player won't work

- Reset the HDTV/DVD by unplugging the AC power cord and plugging it back in.

Disc won't play

- Insert a disc with the label side facing up.
- Check the type of disc you put into the disc tray. This HDTV/DVD only plays DVD video discs, Video CDs, audio CDs and mp3s.
- Both the HDTV/DVD and the disc are coded by region. If the regional codes don't match, the disc can't be played. This HDTV/DVD is Region No. 1.

Play starts, but then stops immediately

- The disc is dirty. Clean it.
- Condensation has formed. Allow player to dry out.

No sound or distorted sound

- Make sure your HDTV/DVD is connected properly. Make sure all cables are securely inserted into the appropriate jacks.
- Sound is muted during still, frame advance, or slow-motion play.

Can't advance through a movie

- You can't advance through the opening credits and warning information that appear at the beginning of movies because the disc is programmed to prohibit that action.

The icon appears on screen

- The feature or action cannot be completed at this time because:
 1. The disc's software restricts it.
 2. The disc's software doesn't support that feature (e.g., angles).
 3. The feature is not available at the moment.
 4. You've requested a title or chapter number that is out of range.

The picture is distorted

- The disc might be damaged. Try another disc.

Picture is distorted during forward and reverse scan

- It is normal for some distortion to appear while scanning.

A screen saver appears on the screen

- Your HDTV/DVD is equipped with a screen saver that appears on the screen after the DVD mode has been idle for several minutes. Press STOP or GO BACK on the remote to make the screen saver disappear from the screen and return to the DVD's main menu.

Subtitle and/or audio language is not the one selected from the initial setting

- If the subtitle and/or audio language does not exist on the disc, the initial settings will not be seen/heard. The disc's priority language is selected instead. Set the subtitle and/or audio language manually through the Info Display or the DVD's main menu.

The menu is displayed in a foreign language

- The Menu Language preference is set to that language. From the DVD's main menu, select the *Languages option* (In Spanish, shown as *Idiomas*; in French, as *Langues*). From the Languages menu, select the *Player Menus* option (In Spanish, shown as *Menús del Lector*; in French, as *Menus Lecteur*). Highlight the language you prefer and press OK.

No forward or reverse scan

- Some discs have sections that prohibit rapid scanning, or title and chapter skip.
- If you're trying to skip through the warning information and credits at the beginning of a movie, you won't be able to. This part of the movie is often programmed to prohibit skipping through it.

Camera angle cannot be changed

- Some discs don't have the multi-camera angle system, and some discs only have it in certain parts of the movie.

Continues on next page...

Other Information

Picture is too tall and thin

- Change the aspect ratio using the *TV Image* setting in the Display menu (see Chapter 5).

Picture is too short and wide

- Change the aspect ratio using the *TV Image* setting in the Display menu (see Chapter 5).

Cannot copy discs to video tape

- You can't record DVD discs onto videocassettes because the discs are encoded with anti-copy protection.

Full Version of Disc Does Not Play

- The DVD might be locked. To unlock, see Chapter 5.

Disc won't eject

- When you put a disc into the disc tray, it may take up to 15 seconds to read the disc. You won't be able to eject the disc during this time. Wait 15 seconds and try again.

I don't remember my password and I want to unlock the DVD

- If you forget your password, simultaneously press and hold OPEN/CLOSE and STOP on the HDTV/DVD's front panel for 3 seconds. Enter a new password via the *Lock* menu.

TV Problems

TV won't turn on

- Press the TV•DVD button.
- Make sure the HDTV/DVD is plugged in.
- Check the wall receptacle (or extension cord) to make sure it is "live" by plugging in something else.
- Something might be wrong with your remote control. Press the POWER button on the front of the HDTV/DVD. If the HDTV/DVD turns on, check the remote control solutions on the next page.
- The front panel controls may be locked (disabled). Use the remote control to unlock the front panel controls by selecting the *Front Panel Block* in the *Parental Control* menu and press OK to uncheck the box.
- The HDTV/DVD might be performing a periodic diagnostic check. Wait for a few minutes for the HDTV/DVD to turn on.

Buttons don't work

- If you're using the remote control, press the TV•DVD button first to make sure the remote is in TV mode.
- The front panel controls may be locked (disabled). Use the remote control to unlock the front panel controls by selecting the *Front Panel Block* in the *Parental Control* menu and press OK to uncheck the box.
- Unplug the HDTV/DVD for ten minutes and then plug it back in. Turn the HDTV/DVD on and try again.

TV turns off unexpectedly

- Sleep timer may have been activated. Go to page 46 for instructions.
- Electronic protection circuit may have been activated because of a power surge. Wait 30 seconds and then turn on again. If this happens frequently, the voltage in your house may be abnormally high or low.
- Unplug the HDTV/DVD. Wait ten minutes. Then, plug the HDTV/DVD in again.

TV turns on unexpectedly

- Wake up timer might have been activated. Go to page 46 for instructions.
- You might have pressed CH+, CH- or INPUT on the remote accidentally.

Blank screen

- If you're trying to watch TV, change channels or press the ANTENNA button to switch tuners.
- If you're trying to watch something that's playing on a component connected to the HDTV/DVD (like a VCR tape), press the TV•DVD button on the remote, then press INPUT until you get to the correct video input channel.
- If you're trying to watch a component (like a VCR), make sure the component connected to the HDTV/DVD is turned on.
- If you're trying to watch a component (like a VCR), make sure the component is connected correctly.

No sound, picture okay

- Maybe the sound is muted. Try pressing the volume up button to restore sound.
- If using S-Video or Y Pb Pr, remember to also connect the component's left and right audio output jacks to the HDTV/DVD's L and R Audio Input jacks.
- The sound settings may not be set correctly. Go to page 42 for more information.

Sound okay, picture poor

- Check antenna connections. Make sure all of the cables are firmly connected to the jacks.
- Try adjusting sharpness function to improve weak signals. Go to page 44 for more instructions.

Can't select certain channel

- Make sure the remote control is in TV mode. Press the TV•DVD button and enter the channel number using the number buttons.
- Channel may be blocked or not approved in the *Parental Controls* menu.
- If using a VCR, check to make sure the TV/VCR button on the VCR is in the correct mode (press the TV/VCR button on your VCR).

Noisy stereo reception

- May be a weak station. Use *Sound* menu to choose mono sound.

No picture, no sound but HDTV/DVD is on

- Maybe the cable/air function is set to the wrong position. Go to page 46 for detailed instructions.
- The channel might be blank — change channels.
- If you're watching your VCR and it's connected with coaxial cable to the CABLE/ANTENNA jack, tune the HDTV/DVD to channel 3 or 4 (whichever channel is selected on the 3/4 switch on the back of your VCR). Also check to make sure the TV/VCR button on the VCR is in the correct mode (press the TV/VCR button on your VCR).

Picture not moving

- You have activated the Freeze feature by pressing FREEZE or OK on the remote. Press any button to “unfreeze” the picture.

Black box appears on the screen

- Closed-captioning might be on. Check *Closed Caption* in the *Setup* menu. Go to page 47 for more instructions.

Freeze not working

- The freeze feature is not available for Component video (CMP1 or CMP2) or DVI inputs.

Low battery warning appears on screen

- Place new batteries in remote.

TV picture keeps switching between screen formats abruptly

- Switch the *Auto format* feature to *Off*. See page 44 for more information.

Channel search finds few channels

- The cable connected to the ANTENNA/CABLE ANALOG INPUT and/or ANTENNA DIGITAL INPUT jack might be loose.
- Your off-air antenna might be getting a weak signal. Move it higher or get a bigger antenna.
- If you have cable TV, make sure that signal is connected to the ANTENNA/CABLE ANALOG INPUT—do not connect it to the ANTENNA DIGITAL INPUT.
- If you have a cable box, you can't connect it to the ANTENNA DIGITAL INPUT jack. Connect it to the ANTENNA/CABLE ANALOG INPUT or a Video Input jack.
- Select the *Both* option in the Channel Search menu, and retry the channel search.

Other Information

The Remote Control Doesn't Work

- Something might be between the remote and the remote sensor on the component. Make sure there is a clear path.
- Maybe the remote isn't aimed directly at the component (TV or VCR) that you're trying to operate.
- Maybe remote is not in TV Mode. Press the TV•DVD button so remote will control HDTV/DVD.
- Maybe batteries in remote are weak, dead, or installed incorrectly. Put new batteries in the remote. (Note, if you remove the batteries, you may have to reprogram the remote to operate other components.)
- You might need to drain the remote's microprocessor: remove batteries and press the number 1 button for at least 60 seconds. Release the 1 button, replace the batteries, and (if necessary) program the remote again.

Problems with V-Chip/Parental Controls

The rating limits don't work

- You must lock the settings. Go to the *MAIN MENU* (press MENU on your remote), select *Parental Control*, select *Lock Parental Controls*.

I don't remember my password and I want to unlock the HDTV/DVD

- If you forget your password, press MENU, then select *Parental Control* (the password entry screen appears). Simultaneously press and hold CH+ and VOL+ on the HDTV/DVD's front panel for 8 seconds. The Parental control menu appears on the screen, and you can re-enter a password via *Lock Parental Controls*.

The V-Chip won't let me watch a program even though it's not rated as violent.

- Maybe the movie was given an NR (Not Rated) status. After you block movie ratings, you must set *NR* to *View* separately in order to view movies with an NR rating.

Care and Cleaning

CAUTION: Turn OFF your TV before cleaning.

You can clean the TV as required, using a soft lint-free cloth. Be sure to occasionally dust the ventilation slots in the cabinet to help assure adequate ventilation.

The TV's screen may be cleaned with a soft, lint-free cloth as well. Take care not to scratch or mar the screen. If necessary, you may use a cloth dampened with warm water. Never use strong cleaning agents, such as ammonia-based cleaners, or abrasive powder. These types of cleaners will damage the TV.

While cleaning do not spray liquid directly on the screen, or allow liquid to run down the screen and inside the TV. Also, never place drinks or vases with water on top of the TV. This could increase the risk of fire or shock hazard or damage to the TV.

Caution: Using video games or any external accessory with fixed images for extended periods of time can cause them to be permanently imprinted on the picture tube (or projection TV picture tubes). ALSO, some network/program logos, phone numbers, etc. may cause similar damage. This damage is not covered by your warranty.

FCC Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003.

V-Chip Rating Explanations

US V-Chip Rating System

TV-MA (Mature Audience Only) Specifically designed to be viewed by adults and may be unsuitable for children under 17. It contains one or more of the following content themes: crude indecent language (L), explicit sexual activity (S), or graphic violence (V).

TV-14 (Parents Strongly Cautioned) Contains some material that many parents would find unsuitable for children under 14. Parents are strongly urged to exercise greater care in monitoring this program and are cautioned against letting children under the age of 14 watch unattended. This program contains one or more of the following content themes: intensely suggestive dialogue (D), strong coarse language (L), intense sexual situations (S), or intense violence (V).

TV-PG (Parental Guidance Suggested) Contains material that parents may find unsuitable for younger children. Many parents may want to watch it with their younger children. The program contains one or more of the following content themes: some suggestive dialogue (D), infrequent coarse language (L), some sexual situations (S), or moderate violence (V).

TV-G (General Audience) Most parents would find this program suitable for all ages. It contains little or no sexual dialogue (D) or situations (S), no strong language (L), and little or no violence (V).

TV-Y7 (Directed to Children 7 years and older) Designed for children ages 7 and above. It may be more appropriate for children who have acquired the developmental skills needed to distinguish between make-believe and reality. Themes and elements in this program may include mild fantasy violence (FV) or comedic violence, or may frighten children under the age of 7.

TV-Y (All Children) Themes and elements in this program are designed for a young audience, including children from ages 2-6. It is not expected to frighten younger children.

Canadian English V-Chip Rating System

18+ (Adults) Programming intended for adults 18 and older. It may contain elements of violence, language, and sexual content which could make it unsuitable for viewers under 18. Violence Guidelines: May contain violence integral to the development of the plot, character or theme, intended for adult audiences. Other Content Guidelines: May contain graphic language and explicit portrayals of nudity and/or sex.

14+ (Viewers 14 and over) Programming contains themes or content which may not be suitable for viewers under the age of 14. Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens. Violence Guidelines: May contain intense scenes of violence. Could deal with mature themes and societal issues in a realistic fashion. Other Content Guidelines: May contain scenes of nudity and/or sexual activity. There could be frequent use of profanity.

PG (Parental Guidance) Programming intended for a general audience but which may not be suitable for younger children (under the age of 8). Parents may consider some content inappropriate for unsupervised viewing by children aged 8-13. Violence Guidelines: Depictions of conflict and/or aggression will be limited and moderate; may include physical, fantasy, or supernatural violence. Other Content Guidelines: May contain infrequent mild profanity, or mildly suggestive language. Could also contain brief scenes of nudity.

G (General Audience) Programming considered acceptable for all ages groups. While not designed specifically for children, it is understood younger viewers may be part of the audience. Violence Guidelines: Will contain very little violence, either physical or verbal or emotional. Will be sensitive to themes which could frighten a younger child, will not depict realistic scenes of violence which minimize or gloss over the effects of violent acts. Other Content Guidelines: There may be some inoffensive slang, no profanity and no nudity.

Continues on next page...

Other Information

C8+ (Children 8 and Older) Programming generally considered acceptable for children 8 years and over to watch on their own. Violence Guidelines: Violence will not be portrayed as the preferred, acceptable, or only way to resolve conflict or encourage children to imitate dangerous acts which they may see on television. Any realistic depictions of violence will be infrequent, discreet, of low intensity and will show the consequences of the acts. Other Content Guidelines: There will be no profanity, nudity or sexual content.

C (Children) Programming intended for children under age 8. Violence Guidelines: Careful attention is paid to themes which could threaten children's sense of security and well being. There will be no realistic scenes of violence. Depictions of aggressive behaviour will be infrequent and limited to portrayals that are clearly imaginary, comedic or unrealistic in nature. Other Content Guidelines: There will be no offensive language, nudity or sexual content.

Canadian French V-Chip Rating System

18+ (Adults) Programming is for adults only. This program contains sustained violence or extremely violent scenes.

16+ (Viewers 16 and over) Programming is not suitable for those under age 16. This program contains frequent scenes of violence or intensely violent scenes.

13+ (Viewers 13 and over) Programming may not be suitable for children under the age of 13. This program either contains several violent scenes or one or more scenes that are violent enough to affect them. Viewing in the company of an adult is therefore strongly recommended for children under the age of 13.

8+ (Viewers 8 and over) Not recommended for young children. This program is suitable for most audiences, but it contains mild or occasional violence that could upset young children. Viewing in the company of an adult is therefore recommended for young children (under the age of 8) who do not distinguish between reality and imagination.

G (General Audience) This program is suitable for audiences of all ages. It contains no violence, or any violence that it does contain is either minimal or is presented in a humorous manner, as a caricature, or in an unrealistic way.

RCA HDTV/DVD Limited Warranty

What your warranty covers:

- Defects in materials or workmanship.

For how long after your purchase:

- One year from date of purchase for labor.
- One year from date of purchase for parts.
- Two years from date of purchase for the picture tube.

The warranty period for rental units begins with the first rental or 45 days from date of shipment to the rental firm, whichever comes first.

What we will do:

- Pay an Authorized Service Center the labor charges to repair your unit.
- Pay an Authorized Service Center for the new, or at our option, refurbished replacement parts and picture tube required to repair your unit.

How you get service:

- Call 1-877-RCA-HDTV and have your unit's date of purchase and model/serial number ready.
- A representative will troubleshoot your problem over the phone.
- If the representative determines that you should receive service, they will provide you with the name(s) of the Authorized Service Center in your area.
- Contact the Service Center and arrange for home or pick up, repair, and return service, provided that your unit is located within the geographic territory covered by an Authorized Service Center. If not, you must take your unit to the Service Center location at your own expense, or pay for the cost the Service Center may charge to transport your unit to and from your home.
- Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the product is within the warranty period must be presented to obtain warranty service. For rental firms, proof of first rental is also required.

What your warranty does not cover:

- Customer instruction. (Your Owner's Manual describes how to install, adjust, and operate your unit. Any additional information should be obtained from your dealer.)
- Installation and related adjustments.
- Damage resulting from non-approved installation methods.
- Signal reception problems not caused by your unit.
- Damage from misuse or neglect.
- Batteries.
- Images burnt onto the screen.
- A television that has been modified or incorporated into other products, or is used for institutional or other commercial purposes.
- A unit purchased or serviced outside the U.S.A.
- Acts of nature, such as but not limited to lightning damage.

Product Registration:

- Please complete the online Product Registration on www.rca.com or complete and mail the Product Registration Card packed with your unit. It will make it easier to contact you should it ever be necessary. The return of the card is not required for warranty coverage.

Limitation of Warranty:

- **THE WARRANTY STATED ABOVE IS THE ONLY WARRANTY APPLICABLE TO THIS PRODUCT. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED (INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) ARE HEREBY DISCLAIMED. NO VERBAL OR WRITTEN INFORMATION GIVEN BY TTE TECHNOLOGY, INC., ITS AGENTS OR EMPLOYEES SHALL CREATE A WARRANTY OR IN ANY WAY INCREASE THE SCOPE OF THIS WARRANTY.**
- **REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. TTE TECHNOLOGY, INC. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT OR ARISING OUT OF ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. THIS DISCLAIMER OF WARRANTIES AND LIMITED WARRANTY ARE GOVERNED BY THE LAWS OF THE STATE OF INDIANA. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.**

How State Law relates to warranty:

- Some states do not allow the exclusion nor limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.
- This warranty gives you specific legal rights, and you also may have other rights that vary from state to state.

If you purchased your unit outside the United States:

- This warranty does not apply. Contact your dealer for warranty information.

Service calls which do not involve defective materials or workmanship are not covered by this warranty. Costs of such service calls are the sole responsibility of the purchaser.

Other Information

Handling Cautions

- Before connecting other components to this HDTV/DVD, be sure to turn all components off.
- Don't move the HDTV/DVD while a disc is being played. The disc may get scratched or broken, and the HDTV/DVD's internal parts may be damaged.
- Don't put any container filled with liquid or any small metal objects on the HDTV/DVD.
- Be careful not to put your hand into the disc tray.
- Don't place anything other than the disc in the disc tray.
- Exterior influences such as lightning and static electricity can affect normal operation of this player. If this occurs, turn the HDTV/DVD off and on again with the ON•OFF button, or disconnect and then reconnect the AC power cord to the AC power outlet. The HDTV/DVD will operate normally.
- Be sure to remove the disc and turn off the HDTV/DVD after use.

Formation of Condensation

- Due to sharp changes in temperature and humidity, condensation may form if warm air comes in contact with any cold parts inside the HDTV/DVD.
- When condensation forms inside the HDTV/DVD, it may not operate correctly. If this occurs, leave the HDTV/DVD at room temperature until the inside of the disc tray becomes dry and operational.
- If condensation forms on a disc, wipe the disc with a soft, dry cloth by moving the cloth from the center hole toward the outer edge.

Accessory Information

There are various accessories available to complement your HDTV/DVD. Prices are subject to change without notice. All accessories are subject to availability.

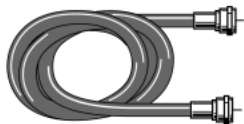
A shipping and handling fee will be charged upon ordering, and we are required by law to collect the appropriate sales tax for each individual state, county and locality to which the merchandise is being sent.

HOW TO ORDER

To place an order by phone, have your Visa, MasterCard or Discover Card ready and call the toll-free number listed below. Use this number only to place an order for accessory items.

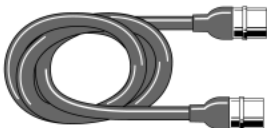
1-800-338-0376

You can buy some accessories on-line at **www.rca.com**.



VH81 (3-ft.), price: \$3.95
VH82 (6-ft.), price: \$4.95

Screw-on Cable attaches to the round antenna connectors (called 75-ohm F-type) on the back of your VCR or TV. The ends screw onto the connectors for a secure connection.



VH89 (6-ft.), price: \$5.95

Push-on antenna cable attaches to the round antenna connectors (called 75-ohm F-type). The ends push on for a quick connection



PS83202C2C, price: \$34.95

Surge Protector provides eight outlets with 3 adapter spacings; 2100 joules protection; \$100,000 connected equipment guarantee.



Component Video Cables Triple cable used to connect a video source with Y, PR, PB jacks to the HDTV/DVD.

Gold-Tipped cable
DT6DC (6-ft.), price: \$24.95
DT12DC (12-ft.), price: \$34.95



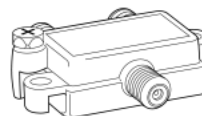
Standard Audio/Video cable with RCA-type phono plugs.

VH83 (6-ft., mono), price: \$5.95
VH84 (6-ft., stereo), price: \$9.95



VH976 (6-ft.), price: \$7.95
VH913 (12-ft.), price: \$14.95

S-Video Cable has multi-pin connectors on each end for connecting S-Video components to your TV.

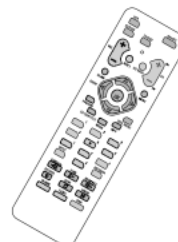


2-way Signal Splitter helps you connect to a second TV or VCR.
VH47, price: \$3.95



Amplified VHF/UHF/FM Antenna allows you to easily switch from the antenna signal to cable or satellite easily without disconnecting antenna.

ANT200, price: \$49.95



Remote Control This is the remote control that came packed with your HDTV/DVD. Replacements or spares can be ordered as needed.

xxxxx, price: \$xxxxx

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Visit the RCA website at www.rca.com

Please do not send any products to the Indianapolis address listed in this manual or on the carton. This will only add delays in service for your product.

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